ORDER No. SM-99001

Service Manual

Colour Television

TX-W32R4

EURO-4 Chassis

SPECIFICATIONS

Power Source:	220-240V a.c., 50Hz	
Power Consumption:	110W	
Aerial Impedance:	75Ω unbalanced, Coaxial Type	
Stand-by Power Consumption:	1,8W	
Receiving System:	PAL I, PAL 525/60 M.NTSC NTSC (AV only)	
Receiving Channels:	UHF E21-E69	
Intermediate Frequency:		
Video	39,5MHz	
Audio	33,5MHz, 32,95MHz	
Colour	35,07MHz	
Video/Audio Terminals:		
AV1 IN	Video (21 pin) Audio (21 pin) RGB (21 pin)	1V p-p 75Ω 500mV rms 10kΩ
AV1 OUT	Video (21 pin) Audio (21 pin)	1V p-p 75Ω 500mV rms 1kΩ
AV2 IN	Video (21 pin) Audio (21 pin) S-Video IN (21 pin)	1V p-p 75Ω 500mV rms 10kΩ Y: 1V p-p 75Ω C: 0,3V p-p 75Ω
AV2 OUT	Video (21 pin) Audio (21 pin) Selectable Output (21 pin)	1V p-p 75Ω 500mV rms 1kΩ
AV3 IN	S-Video IN (4-pin) Audio (RCAx2) Video (RCAx1)	Y: 1V p-p 75Ω C: 0,3V p-p 75Ω 500mV rms10kΩ 1V p-p 75Ω
High Voltage:	30,5kV ±1kV	
Picture Tube:	W76LFC185X06	76cm
Audio Output:	2 x 20W (Music Power) 8Ω Impedance	
Headphones:	8Ω Impedance 3,5 mm	
Accessories supplied :	Remote Control 2 x R6 (UM3) Batteries T.V. Stand (VS-WR4)	
Dimensions:		
Height:	555mm	
Width:	862mm	
Depth:	553mm	
Net weight:	50kg	

Specifications are subject to change without notice.
Weights and dimensions shown are approximate.

NOTE: This Service Manual should be used in conjunction with the EURO-4 Technical Guide.

Panasonic

Panasonic CS (U.K.) Ltd.
WILLOUGHBY ROAD,
BRACKNELL,
BERKS.,
RG12 8FT.

CONTENTS

SAFETY PRECAUTIONS

GENERAL GUIDE LINES

1. It is advisable to insert an isolation transformer in the a.c. supply before servicing a hot chassis.
2. When servicing, observe the original lead dress in the high voltage circuits. If a short circuit is found, replace all parts that have been overheated or damaged by the short circuit.
3. After servicing, see that all the protective devices such as insulation barriers, insulation papers, shields and isolation R-C combinations are correctly installed.
4. When the receiver is not being used for a long period of time, unplug the power cord from the a.c. outlet.
5. Potentials as high as 31,5kV are present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazard.

LEAKAGE CURRENT COLD CHECK

1. Unplug the a.c. cord and connect a jumper between the two prongs of the plug.
2. Turn on the receiver's power switch.
3. Measure the resistance value with an ohmmeter, between the jumpered a.c. plug and each exposed metallic cabinet part on the receiver, such as screw heads, aerials, connectors, control shafts etc. When the exposed metallic part has a return path to the chassis, the reading should be between 4M ohm and 20M ohm. When the exposed metal does not have a return path to the chassis, the reading must be infinite.

LEAKAGE CURRENT HOT CHECK

1. Plug the a.c. cord directly into the a.c. outlet. Do not use an isolation transformer for this check.
2. Connect a 2kΩ 10W resistor in series with an exposed metallic part on the receiver and an earth, such as a water pipe.
3. Use an a.c. voltmeter with high impedance to measure the potential across the resistor.
4. Check each exposed metallic part and check the voltage at each point.
5. Reverse the a.c. plug at the outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1,4 Vrms. In case a measurement is outside the limits specified, there is a possibility of a shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.

HOT CHECK CIRCUIT

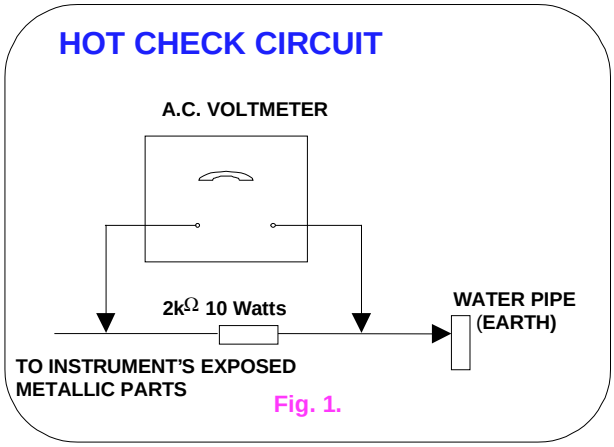


Fig. 1.

X-RADIATION WARNING

1. The potential sources of X-Radiation in TV sets are the high voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that the jig is capable of handling 31,5kV without causing X-Radiation.

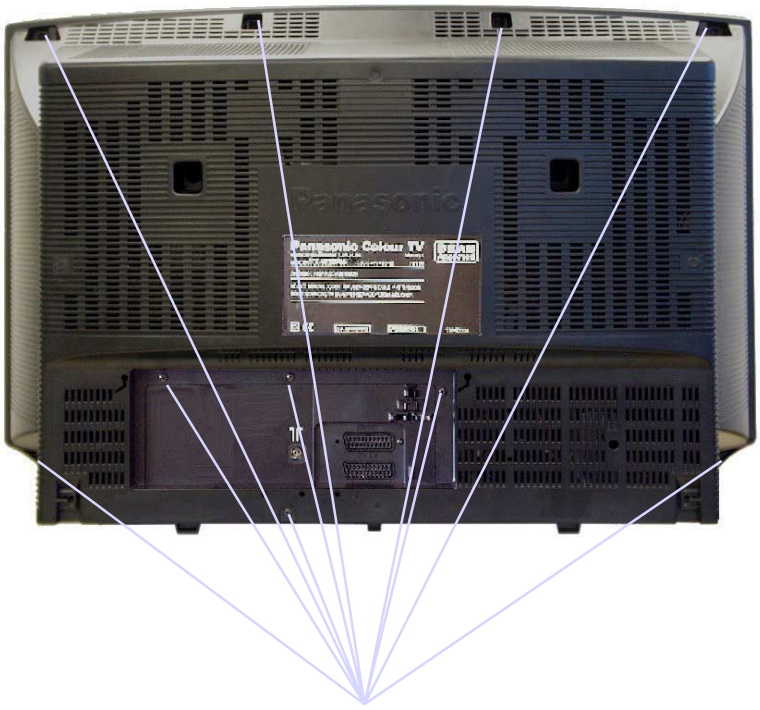
NOTE: It is important to use an accurate periodically calibrated high voltage meter.

1. Set the brightness to minimum.
2. Measure the high voltage. The meter should indicate :- 30,5kV ± 1kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
3. To prevent any X-Radiation possibility, it is essential to use the specified tube.

SERVICE HINTS

How to remove the rear cover

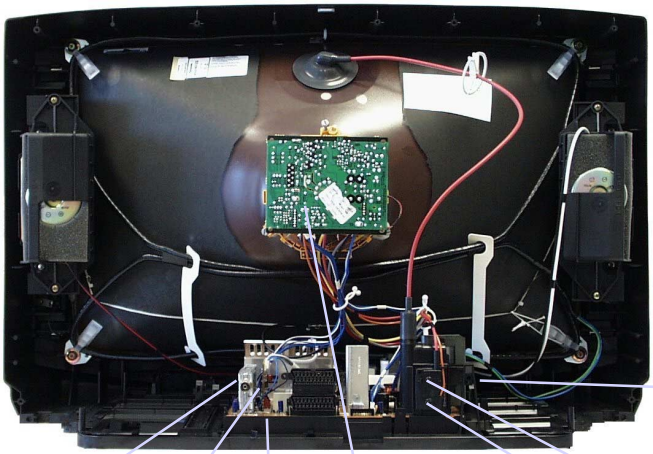
1. Remove the 10 screws as shown in Fig.2.



SCREWS

Fig.2.

LOCATION OF CONTROLS



P - Board

Focus

Screen

M - Board

H - Board

E - Board

Y - Board

Fig.3.

HOW TO MOVE THE CHASSIS INTO SERVICE POSITION

1. Remove the bead clamper from the mains lead and screw, using back cover screw, into top right-hand cabinet rib (**A**), shown in **Fig.4**.
2. Hold and lift the rear of the E-PCB chassis and gently pull the chassis toward you, as shown in **Fig.4**.
3. Release the respective wiring clips and rotate the chassis vertically through 90°, anti-clockwise.
4. Locate the base of the chassis frame into the hole (**B**), shown in **Fig.6**.
5. Clip the chassis frame onto the bead clamper, as shown in **Fig.5**.
6. After servicing replace the bead clamper and ensure all wiring is returned to its original position before returning the receiver to the customer.

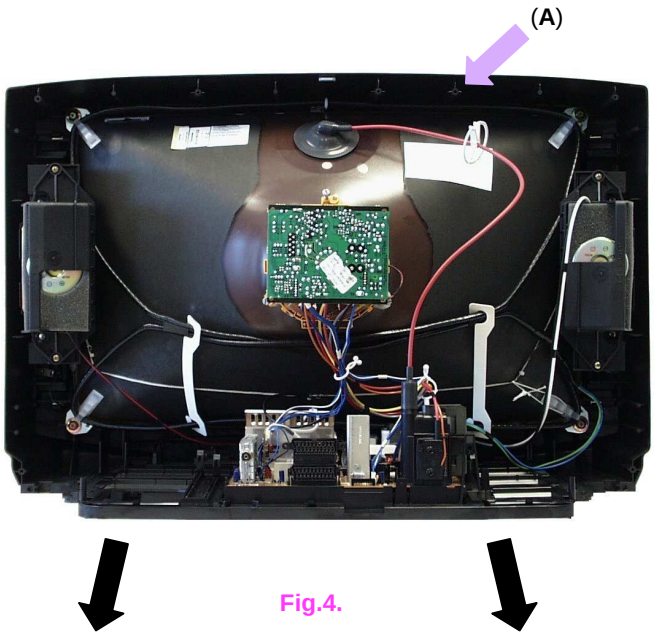


Fig.4.

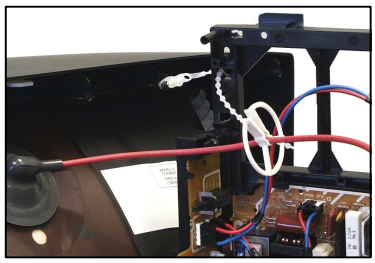


Fig.5.

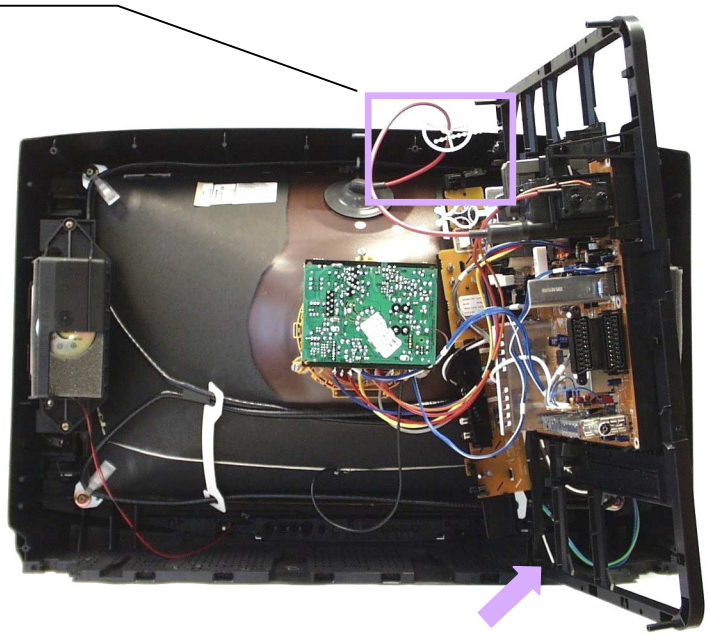


Fig.6.

(B)

ADJUSTMENT PROCEDURE

Item / Preparation	Adjustments
+B SET-UP 1. Receive a Greyscale signal. 2. Set the controls :- Brightness Minimum Contrast Minimum Volume Minimum	1. Set the +B voltage up as follows:- Adjust **R811** so that **B2** shows 148V±1V. 2. Confirm the following voltages. **B9** 5 ± 0,25V **B10** 5 ± 0,25V **B5** 12 ± 0,5V **B11** 33 ± 1,5V **B4** 16 ± 1V **B7** 8 ± 0,5V **B12** 26 ± 1V **B8** 5,5 ± 0,5V **B3** 41 ± 1,5V **B13** 15 ± 1V **B1** 200 ± 10V **B14** -15 ± 1V
CUT OFF / Ug2 Test 1. Receive a Greyscale signal. 2. Degauss the tube externally. 3. Set the TV into Service Mode 1. 4. Select Cut off mode.	To adjust Cutoff connect an oscilloscope to the Blue cathode, adjust "cutoff" value using the "**Yellow**" and "**Blue**" buttons until the black level is 160V±5V press "**STR**" to store the va0lue. Remove the oscilloscope. Select Ug2 adjustment and adjust the screen VR until the display shows "O.K."

FACTORY SETTINGS

To return customer settings to factory settings and clear owner ID of all information input by the customer, enter Self-Check mode. Press the down **(-/v)** button on the customer controls at the front of the TV set, at the same time pressing the **STATUS** button [+] on the remote control. To exit Self Check, switch off the TV set at the power button.

NOTE: Self Check should only be used when refurbishing the TV set and not during normal repair work.

VDP	O.K.	PCB	O.K.
TUN	O.K.	Cab	O.K.
E2	O.K.	Sum	Factory use only
MSP	O.K.		
DPL	- -		
OPTION 1	00		
OPTION 2	21		
OPTION 3	02		
OPTION 4	00		
OPTION 5	B1		
OPTION 6	A9		

Self Check is also used to automatically check the bus lines and hexadecimal code of the TV set. If the CCU ports have been checked and found to be incorrect or not located then " - - " will appear in place of "O.K.". For more in-depth TV diagnostics use the **LUCI** interface as listed below.

Service Aids

To aid in the service of our current chassis there are a number of Service Aids which have been made available.

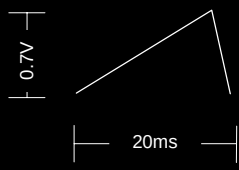
- **LUCI** interface kit (**L**inked **U**tility **C**omputer **I**nterface)
  Part number: TZS6EZ002
  This contains interface and cables for connecting TV service connector and a PC as well as diagnostic software. As new models are introduced upgrade software will become available.

- **VICI** (**V**isual **I**nteractive **C**omputer **I**nformation)
  These C.D.'s contain multimedia documentation providing quick access to service information.
  Part No. TZS7EZ006 & TZS7EZ005
  1. Service Manuals
  2. Instruction Books
  3. Technical Information

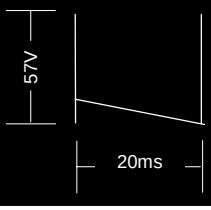
- **TASMIN** (**T**echnically **A**dvanced **S**ystem for **M**ultimedia **I**nteractive **N**otes)
  As well as providing a first step towards more interactive training this product also achieves quick access to Technical Information.

WAVEFORM PATTERN TABLE

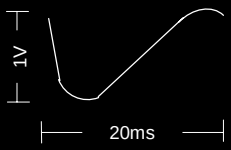
Vert Out
IC601 Pin 31



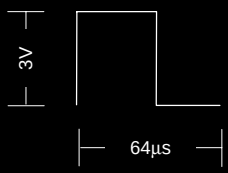
Vert Drive
IC451 Pin 2



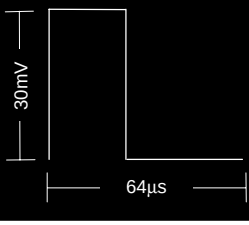
VFLB
IC451 Pin 3



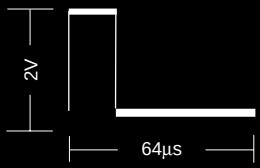
H - Out
IC601 Pin 50



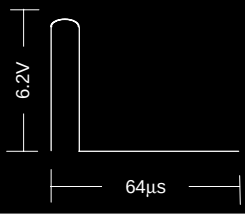
H - Out
IC701 Pin 5



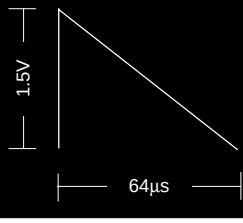
H - Pulse
Base Q503



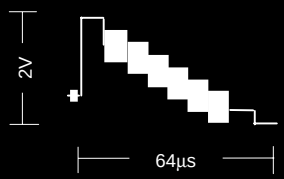
HFLB
IC601 Pin 13



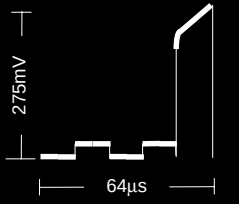
HFLB
IC701 Pin 8



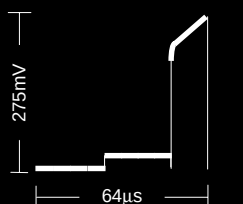
Video Out
IC601 Pin 59



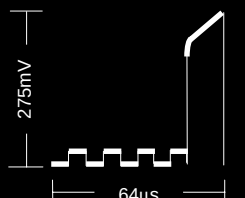
R - Out
IC601 Pin 37



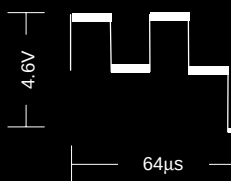
G - Out
IC601 Pin 38



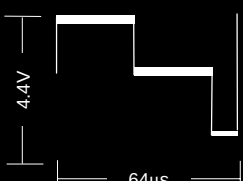
B - Out
IC601 Pin 39



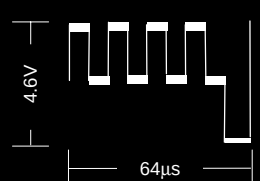
R - Out
E8 Pin 5



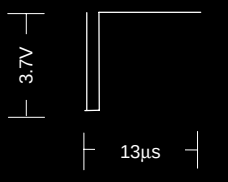
G - Out
E8 Pin 3



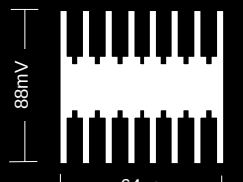
B - Out
E8 Pin 4



SCL
IC1201 Pin 3

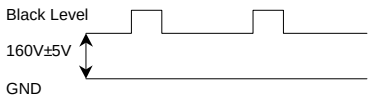


SVM Out
IC601 Pin 34

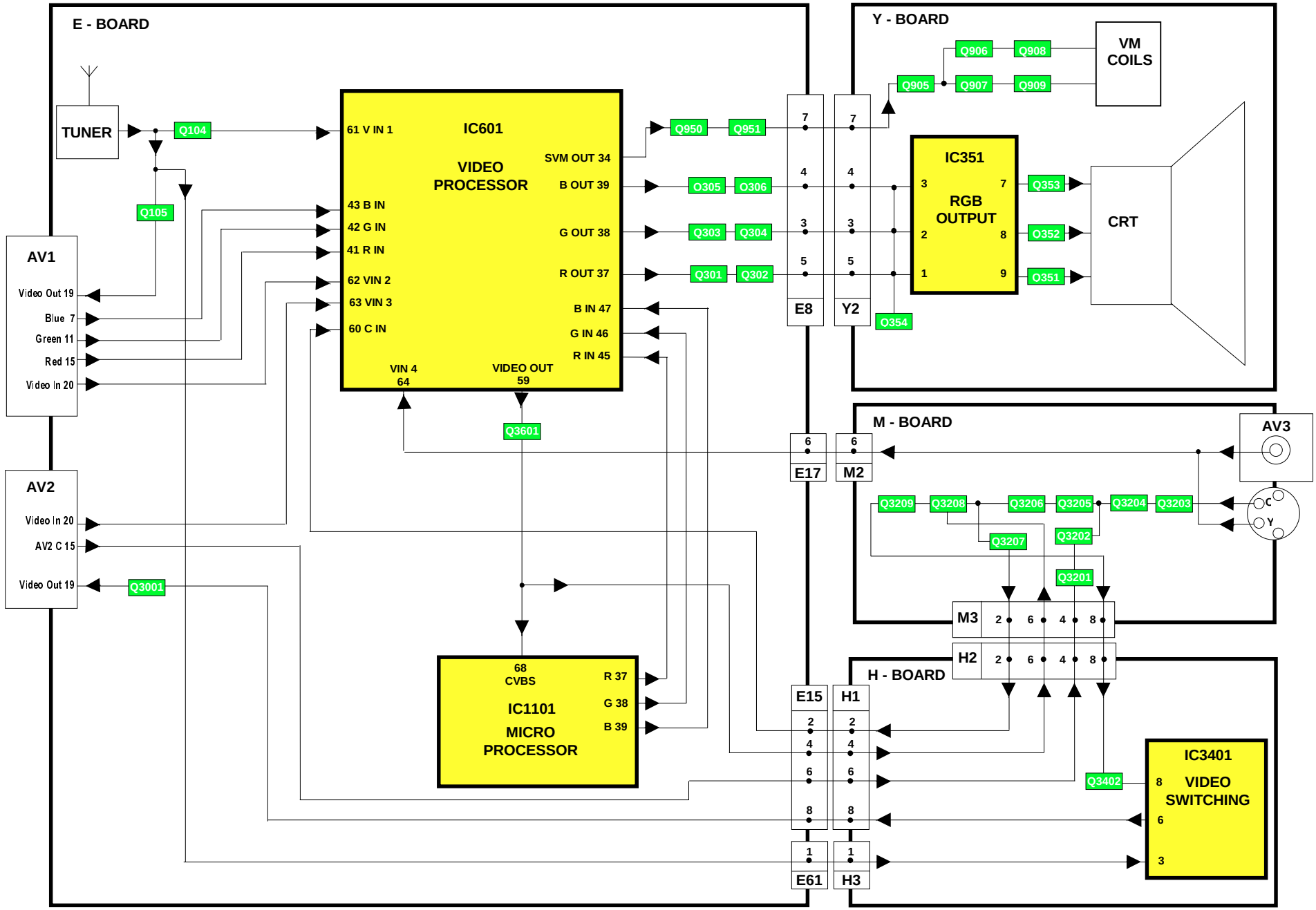


ALIGNMENT SETTINGS

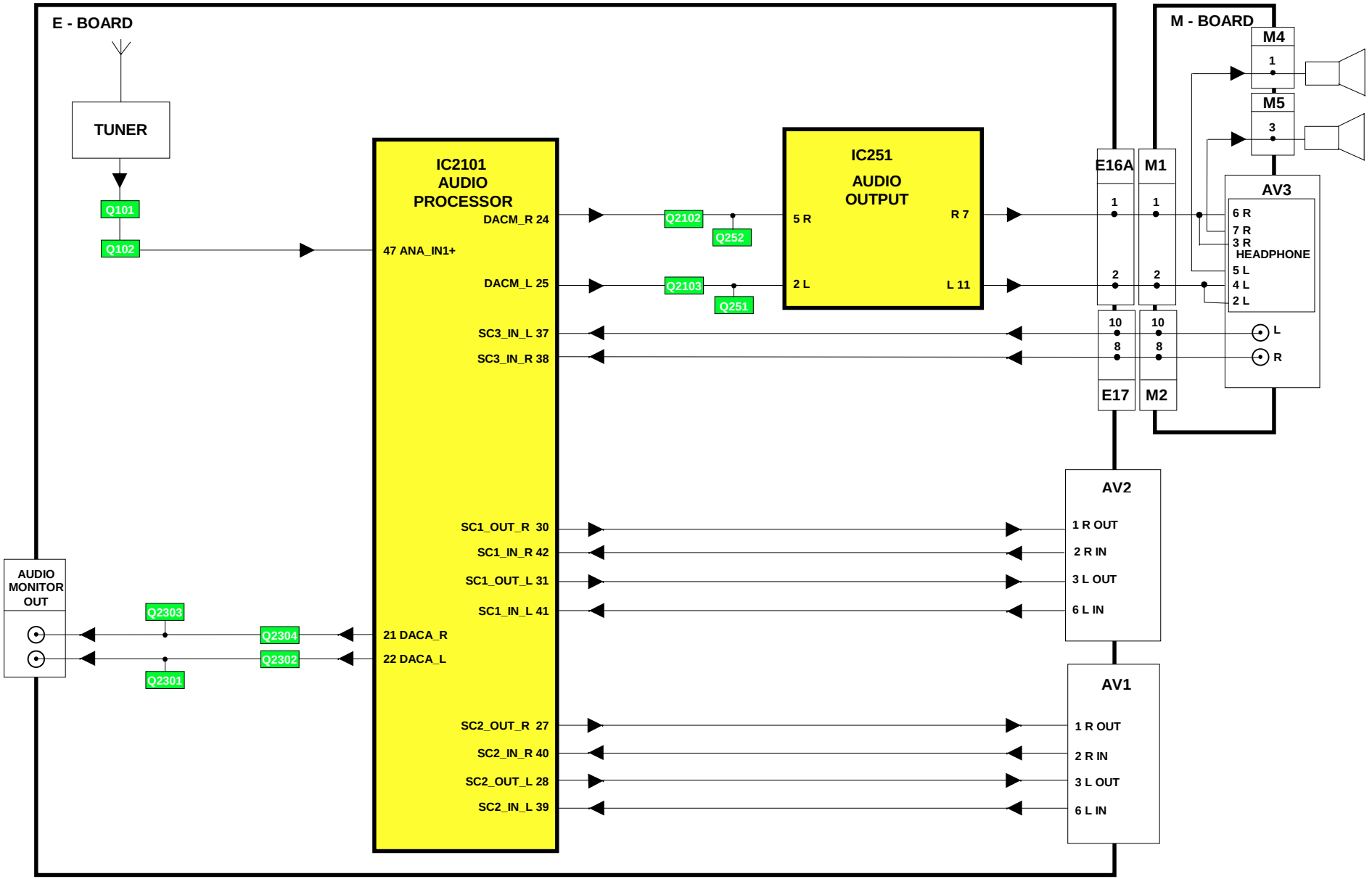
(The figures below are nominal and used for representative purposes only.)

Alignment Function		Settings / Special features
Horizontal Position	H-Pos 061	Optimum setting.
Vertical Position	V-Pos 005	Optimum setting.
Horizontal Amplitude	H-Amp 055	Optimum setting.
Vert. Amplitude	V-Amp 054	Optimum setting.
EW-amplitude	E/W-Amp1 -128	Optimum setting.
EW-amplitude	E/W-Amp2 006	Optimum setting.
Trapezium-comp	Trapez-1 047	Optimum setting.
Trapezium-comp	Trapez-2 -128	Optimum setting.
Vertical Linearity	V-Lin 006	Optimum setting.
Vertical Symmetry	V-Sym 002	Optimum setting.
DVCO	DVCO -005	Receive a PAL Colour Bar Pattern. For DVCO alignment press **"Blue"** button, wait until the colours are changing slowly and press **"STR".**
Cut-off DC	Cut-off 0171	To adjust Cutoff connect an oscilloscope to the blue cathode, adjust "cutoff" value using the "**Yellow**" and "**Blue**" buttons until the black level is 160V±5V press "**STR**" to store the value. Remove the oscilloscope. Select Ug2 adjustment and adjust the screen VR until the display shows "O.K." 
Ug2 Test	Ug2 055 O.K.	
Highlight Lowlight	High 0902 0777 0864 Low 0117 0132 0112	Optimum setting.
Sub-Brightness	Sub-Brightness 255	Optimum setting.

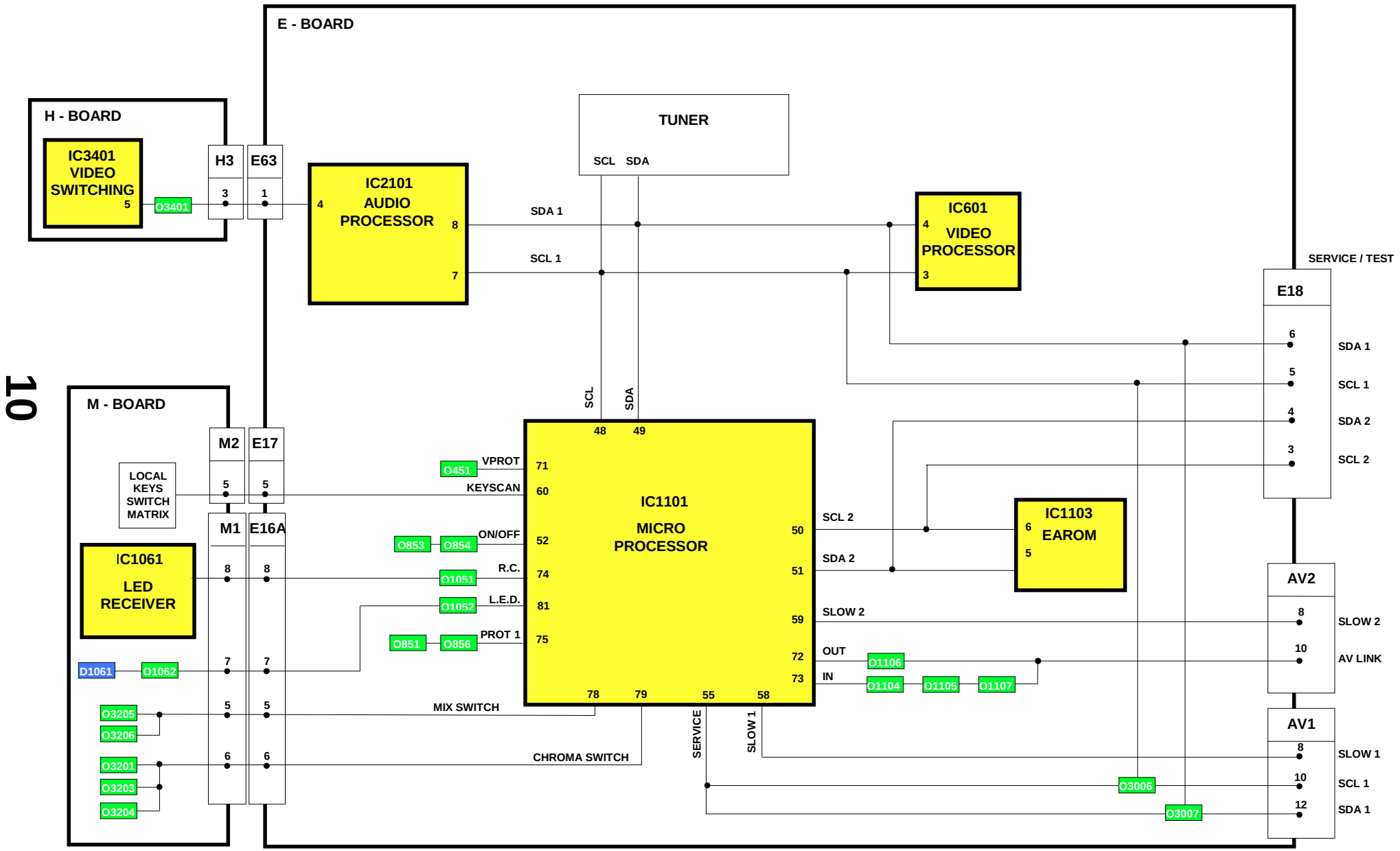
VIDEO BLOCK DIAGRAM



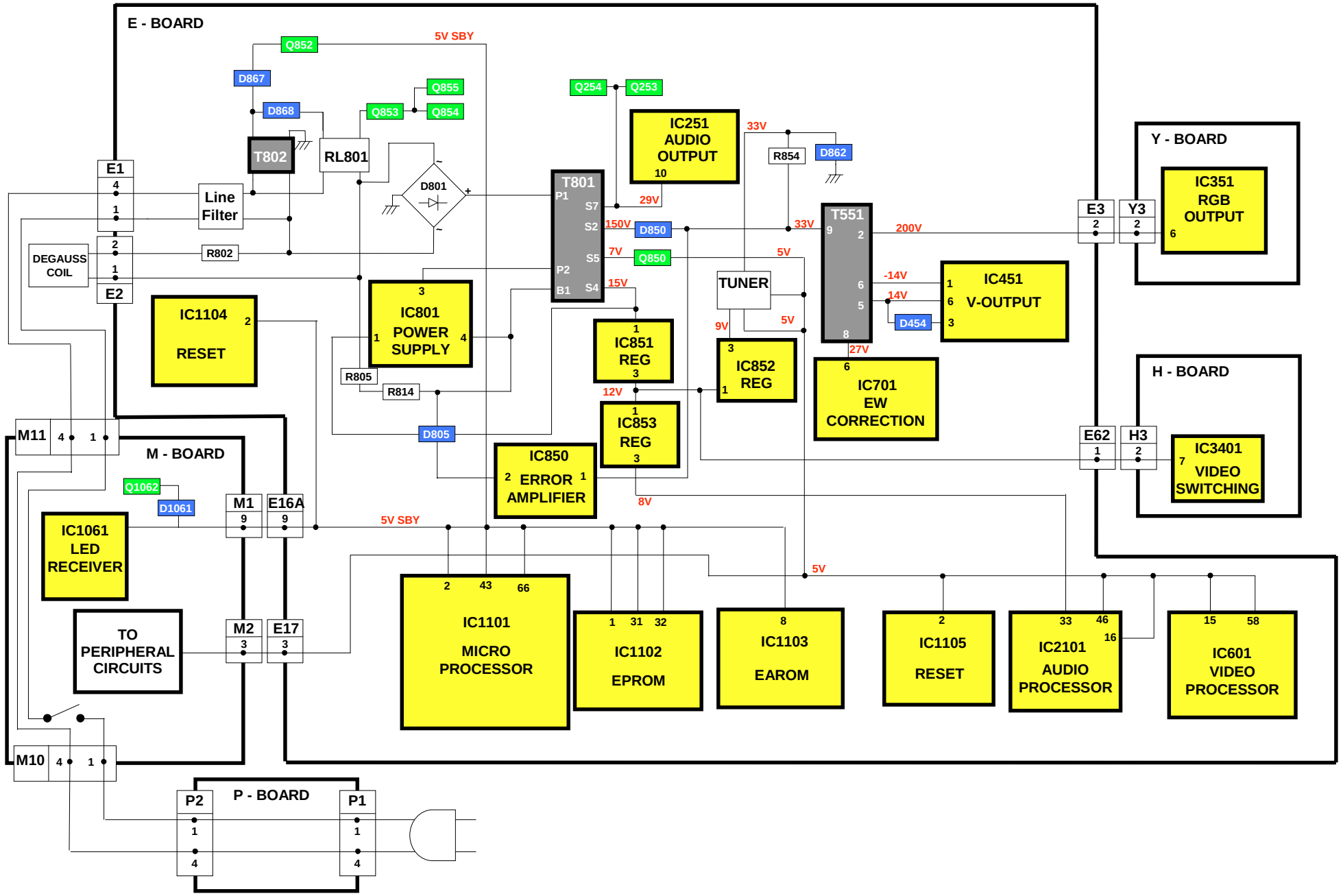
AUDIO BLOCK DIAGRAM



CONTROL BLOCK DIAGRAM

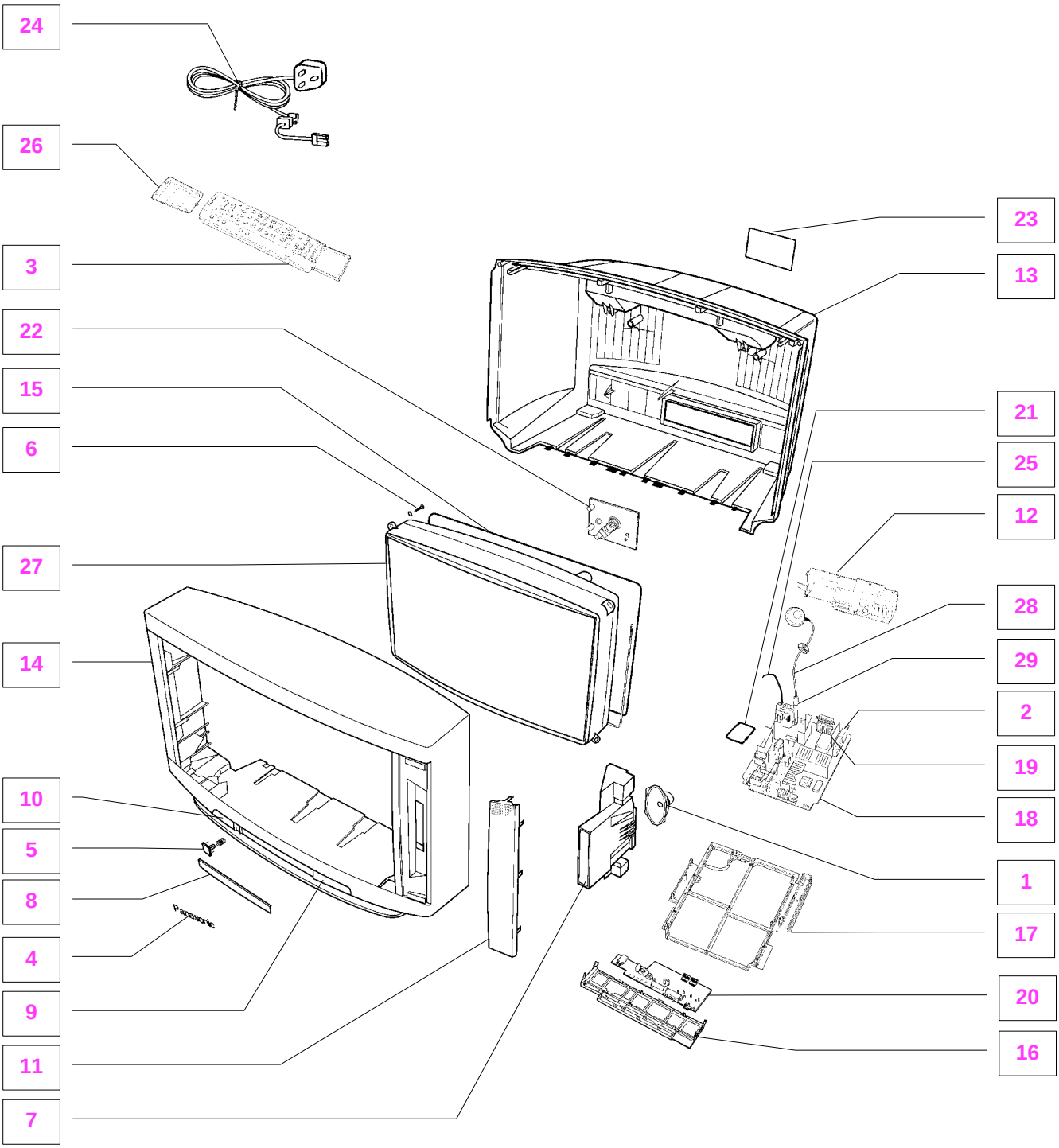


POWER SUPPLY BLOCK DIAGRAM



PARTS LOCATION

NOTE:
The numbers on the exploded view below refer to the mechanical section of the Replacement Parts List.



REPLACEMENT PARTS LIST

Important Safety Notice

Components Identified by ⚠ mark have special characteristics important for safety.
* When replacing any of these components, use only manufacturers specified parts.
In case of ordering these spare parts, please always add the complete Model-Type number to your order.

Cct Ref	Parts Number	Description	
MECHANICAL PARTS			
1	EAGG1218J2	SPEAKER	
2	ENG27506G	TUNER	⚠
3	EUR511210	REMOTE CONTROL	
4	TBM8E1728	PANASONIC BADGE	
5	TBX8E049	POWER BUTTON	
6	THT1062	CRT FIXING SCREW	
7	TKK8E026	SPEAKER REFLECTOR	
8	TKP8E1141	DOOR LID	
9	TKP8E1142	RIGHT PANEL	
10	TKP8E1143	LEFT PANEL	
11	TKP8E1148	SPEAKER NET	
12	TKP8E1254	AV PANEL	
13	TKU8E00290	BACK COVER	⚠
14	TKY8E110	CABINET	⚠
15	TLK8E05123	DEGAUSS COIL	⚠
16	TMW8E023	CONTROL BRACKET	
17	TMX8E031	CHASSIS FRAME	
18	TNP8EE009CA	E P.C.B.	⚠
19	TNP8EH002AB	H P.C.B.	⚠
20	TNP8EM017AA	M P.C.B.	⚠
21	TNP8EP015AA	P P.C.B.	⚠
22	TNP8EY012AJ	Y P.C.B.	⚠
23	TQF8E2762	MODEL LABEL	⚠
24	TSX8E0025	POWER CORD	⚠
25	TXFJTF01BMTG	FOCUS LEAD ASSY	
26	UR51EC904A	BATTERY COVER (REMOTE)	
27	W76LFC185X06	C.R.T.	⚠
28	ZTBZAD550A	ANODE CABLE	
29	ZTFM05002A	F.B.T.	⚠
MISCELLANEOUS COMPONENTS			
	31221212478	FIX CLIP	
	832AG11D-ESL	IC SOCKET	
	F9-4-220	RELAY	
	PLCC-84-T	84 PIN IC SOCKET	
	TBM8E1532-2	PRESET PANEL	
	TBM8E1886	REAR AV LABEL	
	TEK6940	LID CATCH	
	TLK8E05124	GEOMAGNETIC COIL	⚠
	TMW8E017	LED HOLDER	
	TPC8E4729	OUTER CARTON	
	TPD8E621	TOP CUSHION	
	TPD8E622	BOTTOM CUSHION	
	UM-3DJ-2P	BATTERY PACK	
	VS-WR4	TV STAND	
RL801	TSE1885-1	RELAY	
R802	232266296706	THERMISTOR	⚠
S351	0330550049	C.R.T. SOCKET	
INSTRUCTION BOOKS			
	TQB8E2583-3	ENGLISH	⚠

Cct Ref	Parts Number	Description	
I.C.s			
IC251	LA4282	AUDIO OUTPUT	
IC351	TDA6103Q-N3	R.G.B. OUTPUT	
IC451	LA7845N	VERTICAL OUTPUT	
IC601	VDP3120BPPB1	VIDEO PROCESSOR	
IC701	TEA2031A	E/W CORRECTION	
IC801	STRF6654LF51	POWER SUPPLY	
IC850	SE140N	ERROR AMPLIFER	
IC851	L78M12MRB	12V REGULATOR	
IC853	AN78L08TA	8V REGULATOR	
IC1061	RPM-637CBRS1	LED RECEIVER	
IC1101	SDA5450C48UK	MICRO PROCESSOR	
IC1102	27C2001-L01	EPROM *	
IC1103	X24CGL0204SA	EAROM *	
IC1104	MN1381-R(TA)	RESET	
IC1105	MN1381-T(TA)	RESET	
IC1900	LA6515	EARTH CORRECTION	
IC2101	MSP3410DPOB4	AUDIO PROCESSOR	
IC3401	TEA2114	VIDEO SWITCHING	
FUSES			
F801	19181-3.15	FUSE	⚠
F8011	EYF52BC	FUSE HOLDER	
F8012	EYF52BC	FUSE HOLDER	
DIODES			
D251	MA2180BLFS	DIODE	
D253	MA700TA5	DIODE	
D254	MA700TA5	DIODE	
D354	1SR124-4AT82	DIODE	
D355	1SR124-4AT82	DIODE	
D356	1SR124-4AT82	DIODE	
D357	MA165TA5	DIODE	
D358	MA165TA5	DIODE	
D359	MA165TA5	DIODE	
D360	MTZJT-7715A	DIODE	
D361	MA165TA5	DIODE	
D362	MA165TA5	DIODE	
D363	MA165TA5	DIODE	
D364	MA165TA5	DIODE	
D453	MA165TA5	DIODE	
D454	ERA15-02V3	DIODE	
D456	MTZJT-775.6C	DIODE	
D457	MA165TA5	DIODE	
D501	MA165TA5	DIODE	
D502	1SR124-4AT82	DIODE	
D511	MA4047	DIODE	
D552	RU3LFA1	DIODE	
D553	1SR124-4AT82	DIODE	
D554	1SR124-4AT82	DIODE	
D556	MA165TA5	DIODE	
D557	EU02	DIODE	
D558	1SR124-4AT82	DIODE	
D580	ERD07-15L7	DIODE	

Cct Ref	Parts Number	Description
D601	DAN217T146	DIODE
D603	DAN217T146	DIODE
D605	DAN212KT146	DIODE
D606	MA165TA5	DIODE
D607	MA4051	DIODE
D609	1SR124-4AT82	DIODE
D615	STZ6.2NT146	DIODE
D616	STZ6.2NT146	DIODE
D701	MA165TA5	DIODE
D702	MTZJT-775.1C	DIODE
D704	MA29TA5	DIODE
D705	MTZJT-775.6C	DIODE
D801	RBV-608LF-B	DIODE
D803	1SR124-4AT82	DIODE
D804	1SR124-4AT82	DIODE
D805	TLP621GR-LF2	PHOTO COUPLER
D806	1SR124-4AT82	DIODE
D850	RU4BLF-L1	DIODE
D851	MTZJT776.2B	DIODE
D852	MA165TA5	DIODE
D853	MA2180BLFS	DIODE
D854	TVSRU2AMLFA5	DIODE
D855	FML22SLF610	DIODE
D856	RU4AMLF-M1	DIODE
D857	MTZJT-775.1C	DIODE
D858	MA165TA5	DIODE
D859	MA165TA5	DIODE
D861	MA165TA5	DIODE
D862	MTZJT-7736A	DIODE
D863	MA165TA5	DIODE
D865	MA165TA5	DIODE
D866	MA165TA5	DIODE
D867	EK06-V0	DIODE
D868	1N4150T-77	DIODE
D869	1N4150T-77	DIODE
D870	MA165TA5	DIODE
D871	1N4150T-77	DIODE
D873	MTZJT-775.6C	DIODE
D874	1SR124-4AT82	DIODE
D875	BZX79A75A26A	DIODE
D901	MA165TA5	DIODE
D902	MA165TA5	DIODE
D904	MA165TA5	DIODE
D905	MA165TA5	DIODE
D906	RLS72TE-11	DIODE
D1061	LN81RPHL	DIODE
D1101	MA165TA5	DIODE
D1102	MA165TA5	DIODE
D1104	MA165TA5	DIODE
D1105	MA165TA5	DIODE
D2101	MA723TA5	DIODE
D2102	MA723TA5	DIODE
D2103	MA723TA5	DIODE
D2104	MA723TA5	DIODE
D2105	MTZJT-778.2C	DIODE
D3201	MTZJT-778.2C	DIODE
D3202	MTZJT-778.2C	DIODE
TRANSISTORS		
Q101	BC847B	TRANSISTOR
Q102	BC847B	TRANSISTOR
Q104	BC847B	TRANSISTOR
Q105	BC847B	TRANSISTOR
Q251	2SD1328STX	TRANSISTOR
Q252	2SD1328STX	TRANSISTOR
Q253	BC847B	TRANSISTOR
Q254	BC847B	TRANSISTOR

Cct Ref	Parts Number	Description
Q301	BC847B	TRANSISTOR
Q302	FMY4T148	TRANSISTOR
Q303	BC847B	TRANSISTOR
Q304	FMY4T148	TRANSISTOR
Q305	BC847B	TRANSISTOR
Q306	FMY4T148	TRANSISTOR
Q351	2SA1767	TRANSISTOR
Q352	2SA1767	TRANSISTOR
Q353	2SA1767	TRANSISTOR
Q354	BC857B	TRANSISTOR
Q451	BC857B	TRANSISTOR
Q503	2SD2398-M2	TRANSISTOR
Q551	2SD1577LB	TRANSISTOR
Q552	2SC1473-RN	TRANSISTOR
Q701	BC857B	TRANSISTOR
Q850	2SD1273PLB	TRANSISTOR
Q851	BC857B	TRANSISTOR
Q852	2SC1383-S	TRANSISTOR
Q853	BC847B	TRANSISTOR
Q854	BC847B	TRANSISTOR
Q855	BC847B	TRANSISTOR
Q856	BC847B	TRANSISTOR
Q857	2SA1018QTA	TRANSISTOR
Q905	BC847B	TRANSISTOR
Q906	BC847B	TRANSISTOR
Q907	BC857B	TRANSISTOR
Q908	2SA1535ARLB	TRANSISTOR
Q909	2SC3944ARLB	TRANSISTOR
Q950	BC847B	TRANSISTOR
Q951	FMY4T148	TRANSISTOR
Q1051	BC847B	TRANSISTOR
Q1062	BC847B	TRANSISTOR
Q1101	BC847B	TRANSISTOR
Q1104	BC847B	TRANSISTOR
Q1105	BC847B	TRANSISTOR
Q1106	BC847B	TRANSISTOR
Q1107	BC847B	TRANSISTOR
Q1108	BC847B	TRANSISTOR
Q2101	BC857B	TRANSISTOR
Q2102	BC857B	TRANSISTOR
Q2103	BC857B	TRANSISTOR
Q2302	BC857B	TRANSISTOR
Q2304	BC857B	TRANSISTOR
Q3001	BC847B	TRANSISTOR
Q3006	BC847B	TRANSISTOR
Q3007	BC847B	TRANSISTOR
Q3201	BC847B	TRANSISTOR
Q3202	BC847B	TRANSISTOR
Q3203	BC857B	TRANSISTOR
Q3204	BC857B	TRANSISTOR
Q3205	BC847B	TRANSISTOR
Q3206	BC847B	TRANSISTOR
Q3207	BC847B	TRANSISTOR
Q3208	BC847B	TRANSISTOR
Q3209	BC847B	TRANSISTOR
Q3401	BC847B	TRANSISTOR
Q3402	BC847B	TRANSISTOR
Q3601	BC847B	TRANSISTOR
TRANSFORMERS		
T501	ETH19Y173AY	TRANSFORMER
T801	ETS42AE226AD	TRANSFORMER ⚠
T802	ETP35KAN619U	TRANSFORMER ⚠
COILS		
L104	EXCELSA35T	COIL
L106	TLTACT100K	COIL
L107	TLTACT6R8K	COIL

Cct Ref	Parts Number	Description			
L301	TLTACT4R7K	COIL			
L302	TLTACT4R7K	COIL			
L451	EXCELSA35T	COIL			
L501	EXCELSA35T	COIL			
L580	ELC08D682E	COIL			
L581	ELH5L6117	COIL			
L582	ELC18B102E	COIL			
L583	ELC18B101L	COIL			
L601	TLTACT4R7K	COIL			
L602	TLTACT4R7K	COIL			
L603	TLTACT4R7K	COIL			
L604	TLTACT4R7K	COIL			
L606	TLTACT4R7K	COIL			
L607	ELJFC2R2KF	COIL			
L701	ELC10D682E	COIL			
L850	EXCELSA35T	COIL			
L851	EXCELSA35T	COIL			
L852	ELEIE470KA	COIL			
L855	EXCELSA35T	COIL			
L856	EXCELSA39V	COIL			
L901	EXCELSA24T	COIL			
L902	EXCELSA24T	COIL			
L1061	TLT331K991R	COIL			
L1103	TLTACT100K	COIL			
L1104	EXCELSA35T	COIL			
L1105	ELJFC2R2KF	COIL			
L1900	EXCELDR25V	COIL			
L2101	TLTACT100K	COIL			
L2103	EXCELSA35T	COIL			
L2104	TLTACT4R7K	COIL			
L3001	ELEMV1R5MA	COIL			
L3002	ELEMV1R5MA	COIL			
L3003	ELEMV1R5MA	COIL			
L3004	ELEMV1R5MA	COIL			
L3005	ELEBR2R2KA	COIL			
L3006	ELEBR2R2KA	COIL			
L3007	TLTACT2R2K	COIL			
L3201	ELEBR6R8KA	COIL			
L3202	ELEBR6R8KA	COIL			
L3203	TLT390K991R	COIL			
L3204	TLT331K991R	COIL			
L3401	ELESN2R2KA	COIL			
L3402	ELESN2R2KA	COIL			
FILTERS					
L802	ELF18N012A	LINE FILTER			
L804	ELF18N012A	LINE FILTER			
CRYSTALS					
X601	4730007267	CRYSTAL			
X1101	TSSA121	CRYSTAL			
X2101	4730007158	CRYSTAL			
RESISTORS					
	ERC12GK825	SOLID	0.5W	10%	8M2 Ω
C101	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA26	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA27	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA28	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA3	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA36	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA37	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA39	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA25	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA45	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA15	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA44	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA22	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω

Cct Ref	Parts Number	Description			
JA2	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA47	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA16	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA55	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA14	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA13	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA12	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA11	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA10	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA17	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE12	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSM7	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSM14	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE42	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE4	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE35	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE33	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE3	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE26	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA52	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE18	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA48	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE10	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA9	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA60	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA58	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA57	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA38	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA54	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA1	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA49	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE22	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA40	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA31	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA1	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA8	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA21	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA5	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA23	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA51	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA30	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA2	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA32	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA33	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA34	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA35	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA50	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA43	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA46	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA29	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA56	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA53	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA59	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA61	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
R101	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R102	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R103	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R104	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R105	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R106	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω
R107	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R111	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R112	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R113	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R114	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R115	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω

Cct Ref	Parts Number	Description				
R116	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω	
R117	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R118	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R121	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R251	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R252	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω	
R253	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R254	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R255	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R256	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R257	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150 Ω	
R258	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω	
R259	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150 Ω	
R260	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R261	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R262	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R263	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω	
R264	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R265	ERD25TJ2R2	CARBON	0.25W	5%	2R2 Ω	
R266	ERD25TJ2R2	CARBON	0.25W	5%	2R2 Ω	
R267	ERF7ZK4R7	WOUND	7W	10%	4R7 Ω	⚠
R268	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R269	ERQ14AJ101	METAL	0.25W	5%	100 Ω	⚠
R271	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R272	ERF7ZK4R7	WOUND	7W	10%	4R7 Ω	⚠
R301	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R302	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R303	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R304	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω	
R305	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R306	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R307	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R308	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω	
R309	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R310	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R311	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R312	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω	
R351	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω	
R352	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω	
R353	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω	
R354	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R355	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R356	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R357	ERDS1TJ114	CARBON	0.5W	5%	110K Ω	
R358	ERDS1TJ114	CARBON	0.5W	5%	110K Ω	
R359	ERDS1TJ114	CARBON	0.5W	5%	110K Ω	
R363	ERD25TJ103	CARBON	0.25W	5%	10K Ω	
R364	ERD25TJ103	CARBON	0.25W	5%	10K Ω	
R365	ERD25TJ103	CARBON	0.25W	5%	10K Ω	
R366	ERDS1TJ152	CARBON	0.5W	5%	1K5 Ω	
R367	ERDS1TJ152	CARBON	0.5W	5%	1K5 Ω	
R368	ERDS1TJ152	CARBON	0.5W	5%	1K5 Ω	
R369	ERD25TJ472	CARBON	0.25W	5%	4K7 Ω	
R370	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R372	ERQ12AJ121	FUSIBLE	0.5W	5%	120 Ω	⚠
R373	ERJ6GEYJ220	S.M.CARB	0.1W	5%	22 Ω	
R374	ERD25TJ274	CARBON	0.25W	5%	270K Ω	
R375	ERJ6GEYJ684	S.M.CARB	0.1W	5%	680K Ω	
R376	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω	
R377	ERQ12HKR22	FUSIBLE	0.5W	5%	R22 Ω	⚠
R378	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R379	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R380	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R381	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω	
R451	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R452	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	

Cct Ref	Parts Number	Description				
R453	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R454	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω	
R455	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R456	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R457	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R458	ERD25TJ1R5	CARBON	0.25W	5%	1R5 Ω	
R459	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R460	ERDS1TJ331	CARBON	0.5W	5%	330 Ω	
R461	ERW2PK1R2	WOUND	2W	10%	1R2 Ω	⚠
R463	ERD25TJ222	CARBON	0.25W	5%	2K2 Ω	
R464	ERJ6GEYJ182	S.M.CARB	0.1W	5%	1K8 Ω	
R465	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R502	ERJ6GEYJ511	S.M.CARB	0.1W	5%	510 Ω	
R506	ERD25TJ560	CARBON	0.25W	5%	56 Ω	
R507	ERG2FJ470H	METAL	2W	5%	47 Ω	⚠
R509	ERDS1TJ152	CARBON	0.5W	5%	1K5 Ω	
R510	ERDS1FJ152	CARBON	0.5W	5%	1K5 Ω	⚠
R555	ERQ12HKR33	METAL	0.5W	5%	R33 Ω	⚠
R558	ERDS1TJ124	CARBON	0.5W	5%	120K Ω	
R559	ERQ12HKR33	METAL	0.5W	5%	R33 Ω	⚠
R560	ERJ6GEYJ274	S.M.CARB	0.1W	5%	270K Ω	
R561	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω	
R563	ERJ6GEYJ684	S.M.CARB	0.1W	5%	680K Ω	
R564	ERJ6GEYJ623	S.M.CARB	0.1W	5%	62K Ω	
R566	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω	
R567	ERF7ZK1R0	WOUND	7W	10%	1 Ω	⚠
R580	ERG1SJ101	METAL	1W	5%	100 Ω	
R581	ERG1SJ152	METAL	1W	5%	1K5 Ω	
R582	ERG3FJ102H	METAL	3W	5%	1K Ω	⚠
R601	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R602	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω	
R603	ERJ8GEYJ103	S.M.CARB	.125W	5%	10K Ω	
R604	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R605	ERD25TJ331	CARBON	0.25W	5%	330 Ω	
R606	ERD25TJ331	CARBON	0.25W	5%	330 Ω	
R607	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω	
R608	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω	
R609	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2 Ω	
R610	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R611	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R612	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R613	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5 Ω	
R622	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R636	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R645	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R647	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R648	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5 Ω	
R650	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R651	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R652	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R654	ERJ6GEYJ622	S.M.CARB	0.1W	5%	6K2 Ω	
R655	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R658	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R659	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R660	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R701	ERQ12AJ101	FUSIBLE	0.5W	5%	100 Ω	⚠
R702	ERQ12HJ330	FUSIBLE	0.5W	5%	33 Ω	⚠
R703	ERG2FJ821	METAL	2W	5%	820 Ω	⚠
R704	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω	
R705	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R706	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R707	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R708	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω	
R709	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω	
R710	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω	
R711	ERG1SJ101	METAL	1W	5%	100 Ω	

Cct Ref	Parts Number	Description				
R712	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R801	ERC12ZGK335D	SOLID	0.5W	10%	3M3 Ω	
R803	ERC12ZGK335D	SOLID	0.5W	10%	3M3 Ω	
R805	ERD25TJ473	CARBON	0.25W	5%	47K Ω	
R806	ERD25TJ100	CARBON	0.25W	5%	10 Ω	
R807	ERD25TJ332	CARBON	0.25W	5%	3K3 Ω	
R809	ERD25TJ681	CARBON	0.25W	5%	680 Ω	
R810	ERW2PKR27	WOUND	2W	10%	R27 Ω	⚠
R811	ERW2PKR27	WOUND	2W	10%	R27 Ω	⚠
R812	ERD75TAJ825	CARBON	0.75W	5%	8M2 Ω	⚠
R813	ERF7ZK2R7	WOUND	7W	20%	2R7 Ω	⚠
R814	ERD25TJ473	CARBON	0.25W	5%	47K Ω	
R815	ERD25TJ222	CARBON	0.25W	5%	2K2 Ω	
R850	ERD25TJ122	CARBON	0.25W	5%	1K2 Ω	
R852	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R853	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R854	ERG2FJ223	METAL	2W	5%	22K Ω	⚠
R855	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω	
R857	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω	
R858	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω	
R859	ERJ6GEYJ753	S.M.CARB	0.1W	5%	75K Ω	
R860	ERQ1CJP2R2	FUSIBLE	1W	10%	2R2 Ω	⚠
R861	ERD25TJ221	CARBON	0.25W	5%	220 Ω	
R862	ERD25TJ272	CARBON	0.25W	5%	2K7 Ω	
R863	ERDS1TJ560	CARBON	0.5W	5%	56 Ω	
R864	ERDS1TJ680	CARBON	0.5W	5%	68 Ω	
R865	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R867	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R868	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R869	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R870	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω	
R871	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R872	ERG1SJ183	METAL	1W	5%	18K Ω	
R873	ERG1SJ223	METAL	1W	5%	22K Ω	
R874	ERD25TJ104	CARBON	0.25W	5%	100K Ω	
R876	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R877	ERW2PKR47	WOUND	2W	10%	R47 Ω	⚠
R878	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω	
R913	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω	
R914	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2 Ω	
R915	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5 Ω	
R916	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R919	ERQ14AJW390	FUSIBLE	0.25W	5%	39 Ω	⚠
R920	ERQ14AJW390	FUSIBLE	0.25W	5%	39 Ω	⚠
R921	ERD25TJ471	CARBON	0.25W	5%	470 Ω	
R922	ERD25TJ393	CARBON	0.25W	5%	39K Ω	
R923	ERD25TJ393	CARBON	0.25W	5%	39K Ω	
R924	ERDS1FJ390	CARBON	0.5W	5%	39 Ω	⚠
R925	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R926	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R927	ERD25TJ471	CARBON	0.25W	5%	470 Ω	
R928	ERD25TJ5R6	CARBON	0.25W	5%	5R6 Ω	
R929	ERDS1FJ471	CARBON	0.5W	5%	470 Ω	⚠
R930	ERD25TJ5R6	CARBON	0.25W	5%	5R6 Ω	
R931	ERDS1FJ390	CARBON	0.5W	5%	39 Ω	⚠
R935	ERQ14AJW3R9	FUSIBLE	0.25W	5%	3R9 Ω	⚠
R936	ERQ1CJP331	FUSIBLE	1W	5%	330 Ω	⚠
R951	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R952	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R953	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R954	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R1051	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R1062	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω	
R1063	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1101	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1102	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	

Cct Ref	Parts Number	Description			
R1103	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R1104	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R1105	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1106	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R1107	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R1108	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1109	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1110	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1111	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R1112	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R1113	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1114	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1115	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1116	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1117	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1118	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1119	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1120	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1121	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1123	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1125	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1126	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1127	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1128	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R1129	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R1130	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1131	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1132	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1133	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R1136	ERJ6GEYJ823	S.M.CARB	0.1W	5%	82K Ω
R1137	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1138	ERJ6GEYJ474	S.M.CARB	0.1W	5%	470K Ω
R1139	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1140	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1141	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1145	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1146	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1147	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1148	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1149	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R1151	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1152	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1156	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1157	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1158	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1159	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1160	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R1161	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1163	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1164	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1165	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1167	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10 Ω
R1168	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R1169	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1170	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R1171	ERJ6GEYJ224	S.M.CARB	0.1W	5%	220K Ω
R1172	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R1173	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R1174	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R1175	ERJ6GEYJ225	S.M.CARB	0.1W	5%	2M2 Ω
R1177	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1178	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1251	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R1252	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R1253	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R1254	ERJ6GEYJ512	S.M.CARB	0.1W	5%	5K1 Ω

Cct Ref	Parts Number	Description				
R1255	ERJ6GEYJ912	S.M.CARB	0.1W	5%	9K1 Ω	
R1900	ERQ12HJ150	FUSIBLE	0.1W	5%	15 Ω	⚠
R1901	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω	
R1902	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1903	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1904	ERDS1TJ6R8	CARBON	0.5W	5%	6R8 Ω	
R1905	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R1906	ERJ6GEYJ513	S.M.CARB	0.1W	5%	51K Ω	
R1907	ERJ6GEYJ753	S.M.CARB	0.1W	5%	75K Ω	
R1908	ERJ6GEYJ753	S.M.CARB	0.1W	5%	75K Ω	
R1909	ERDS1TJ6R8	CARBON	0.5W	5%	6R8 Ω	
R2101	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R2102	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2103	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2104	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2105	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2106	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2107	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2108	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2109	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω	
R2110	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R2111	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω	
R2112	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R2113	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω	
R2114	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2115	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R2116	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2117	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2118	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R2119	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2120	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R2305	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R2311	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3001	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3002	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R3003	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3004	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R3005	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3006	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R3007	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3008	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R3009	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3010	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3011	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3012	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3013	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3014	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R3015	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3016	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R3017	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3018	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R3019	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3020	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R3021	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3022	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3023	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K Ω	
R3024	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R3025	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3026	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3044	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3046	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3047	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3048	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R3049	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3050	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R3057	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	

Cct Ref	Parts Number	Description				
R3202	ERDS1TJ151	CARBON	0.5W	5%	150 Ω	
R3203	ERDS1TJ151	CARBON	0.5W	5%	150 Ω	
R3204	ERG2FJ221	METAL	2W	5%	220 Ω	⚠
R3205	ERG2FJ221	METAL	2W	5%	220 Ω	⚠
R3207	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3208	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R3209	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3210	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R3211	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R3212	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R3213	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3214	ERJ6GEYJ683	S.M.CARB	0.1W	5%	68K Ω	
R3215	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω	
R3216	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3217	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R3218	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R3219	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3220	ERJ6GEYJ683	S.M.CARB	0.1W	5%	68K Ω	
R3221	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω	
R3222	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R3223	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R3224	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3225	ERJ6GEYJ683	S.M.CARB	0.1W	5%	68K Ω	
R3226	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω	
R3227	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3228	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω	
R3229	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R3230	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω	
R3231	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2 Ω	
R3232	ERJ6GEYJ242	S.M.CARB	0.1W	5%	2K4 Ω	
R3233	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R3234	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3402	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3403	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3404	ERJ6GEYJ242	S.M.CARB	0.1W	5%	2K4 Ω	
R3405	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R3406	ERJ6GEYJ301	S.M.CARB	0.1W	5%	300 Ω	
R3407	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K Ω	
R3408	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R3409	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3601	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3602	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3603	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3604	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3605	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3606	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3607	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R3608	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω	
R3609	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R3610	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3613	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R3614	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	

CAPACITORS

C102	ECJ2VF1H103Z	ELECT	350V	10nF
C103	ECJ2VF1H104Z	ELECT	350V	100nF
C106	ECUV1H560JCX	S.M. CAP	50V	56pF
C107	ECJ2VF1H104Z	ELECT	350V	100nF
C108	ECA1CM100GB	ELECT	16V	10µF
C109	ECUV1H102JCX	S.M. CAP	50V	1nF
C110	ECJ2VF1H103Z	ELECT	350V	10nF
C111	ECA1HMR33GB	ELECT	50V	10nF
C117	ECJ2VF1H103Z	ELECT	350V	10nF
C118	ECJ2VF1H104Z	ELECT	350V	100nF
C119	ECA1CM221GB	ELECT	16V	220µF
C120	ECA1CM221GB	ELECT	16V	220µF
C121	ECUV1H561KBX	S.M. CAP	50V	560pF

Cct Ref	Parts Number	Description			
C124	ECUV1H220JCX	S.M. CAP	50V	22pF	
C125	ECUV1H100DCX	S.M. CAP	50V	10pF	
C251	ECA1HM220GB	ELECT	50V	22µF	
C252	ECUV1H103KBX	S.M. CAP	50V	10nF	
C253	ECA1HM4R7GB	ELECT	50V	4.7µF	
C254	ECQM1H474J	FILM	50V	470nF	
C255	ECA1EM101GB	ELECT	25V	100µF	
C256	ECUV1H103KBX	S.M. CAP	50V	10nF	
C257	ECA1HM4R7GB	ELECT	50V	4.7µF	
C258	ECA1HM220GB	ELECT	50V	22µF	
C259	ECQM1H474J	FILM	50V	470nF	
C260	ECA1VM102GB	ELECT	35V	1nF	
C261	ECA1VM102GB	ELECT	35V	1nF	
C262	ECQM1H224J	FILM	50V	220nF	
C263	ECA1HM010GB	ELECT	50V	1µF	
C264	ECA1HHG222E	ELECT	50V	1µF	
C265	ECQM1H224J	FILM	50V	220nF	
C266	ECA1HM010GB	ELECT	50V	1µF	
C267	ECJ2VB1H104K	ELECT	350V	100nF	
C268	ECJ2VB1H104K	ELECT	350V	100nF	
C270	ECJ2VB1H104K	ELECT	350V	100nF	
C301	ECJ2VB1C104K	ELECT	350V	100nF	
C302	ECJ2VB1C104K	ELECT	350V	100nF	
C303	ECJ2VB1C104K	ELECT	350V	100nF	
C304	ECA1CM100GB	ELECT	16V	10µF	
C351	ECUV1H090DCN	S.M. CAP	50V	90pF	
C352	ECUV1H090DCN	S.M. CAP	50V	90pF	
C353	ECUV1H090DCN	S.M. CAP	50V	90pF	
C354	ECQM2104KZ	FILM	250V	100nF	
C355	ECUV1H471JCX	S.M. CAP	50V	470pF	
C356	ECUV1H471JCX	S.M. CAP	50V	470pF	
C357	ECUV1H471JCX	S.M. CAP	50V	470pF	
C358	ECQM1H224J	FILM	50V	220nF	
C360	ECKC3D152J	CERAMIC	2KV	1.5nF	⚠
C361	ECA1HMR47GB	ELECT	50V	1.5nF	
C363	ECA1VM471GB	ELECT	35V	470µF	
C364	ECJ2VF1H103Z	ELECT	350V	10nF	
C366	ECA1CM100GB	ELECT	16V	10µF	
C451	ECUV1H102JX	S.M. CAP	50V	1nF	
C453	ECUV1H152KBX	S.M. CAP	50V	1.5pF	
C454	ECUV1H223KBM	S.M. CAP	50V	22nF	
C455	ECA1HM100GB	ELECT	50V	10µF	
C456	ECA1HHG221B	ELECT	50V	220µF	
C458	ECQB1222JF3	FILM	100V	2.2nF	
C459	222236516154	FILM	160V	150nF	
C461	ECCR2H270J	CERAMIC	500V	27pF	
C508	ECQV1H105JZ	FILM	50V	1µF	
C509	ECA1VM470B	ELECT	35V	47µF	
C510	ECUV1H104KBX	S.M. CAP	50V	100nF	
C511	ECQM2683JZ	FILM	250V	68nF	
C551	222237544182	FILM	440V	1.8nF	
C552	ECWH15H102JN	FILM	1500V	1nF	
C556	ECQF6303JZ	FILM	630V	1nF	
C557	ECKC2H471J	CERAMIC	500V	470pF	⚠
C558	ECA1HHG471E	ELECT	50V	470µF	
C561	ECA1EHG102B	ELECT	25V	470µF	
C562	ECKC2H101J	CERAMIC	500V	100pF	⚠
C563	ECA2EHG220B	ELECT	250V	20µF	
C564	ECEA2AU2R2	ELECT	100V	2.2µF	
C565	ECQP1H273J	FILM	100V	2.2µF	
C566	ECKC2H471J	CERAMIC	500V	470pF	⚠
C567	ECA1EHG102B	ELECT	25V	470pF	
C568	ECKC2H471J	CERAMIC	500V	470pF	⚠
C569	ECKC2H102J	CERAMIC	500V	1nF	⚠
C580	ECA2VM010B	ELECT	63V	1µF	
C581	ECWF2H125J	FILM	500V	1.2µF	⚠

Cct Ref	Parts Number	Description			
C582	ECWF2H684J	FILM	500V	680nF	⚠
C583	ECWH15H822JN	FILM	1500V	8.2nF	
C584	TAC4R6T682JC	CERAMIC	400V	6.8µF	
C601	ECUV1H104KBX	S.M. CAP	50V	100nF	
C602	ECA1HM101GB	ELECT	50V	100µF	
C603	ECUV1H102JCX	S.M. CAP	50V	1nF	
C604	ECJ2VF1H223Z	ELECT	350V	22nF	
C605	ECA1HM101GB	ELECT	50V	100µF	
C606	ECA1HM3R3GB	ELECT	50V	3.3µF	
C607	ECJ2VF1H104Z	ELECT	350V	100nF	
C608	ECUV1H153KBX	S.M. CAP	50V	15nF	
C609	ECUV1H153KBX	S.M. CAP	50V	15nF	
C610	ECUV1H153KBX	S.M. CAP	50V	15nF	
C611	ECUV1H153KBX	S.M. CAP	50V	15nF	
C612	ECUV1H153KBX	S.M. CAP	50V	15nF	
C613	ECUV1H153KBX	S.M. CAP	50V	15nF	
C614	ECUV1H050CCX	S.M. CAP	50V	50pF	
C615	ECUV1H050CCX	S.M. CAP	50V	50pF	
C616	ECA1HM101GB	ELECT	50V	100µF	
C617	ECUV1H223KBX	S.M. CAP	50V	22nF	
C618	ECA1CM221GB	ELECT	16V	220µF	
C619	ECJ2VB1H473K	ELECT	350V	47nF	
C620	ECA1HM101GB	ELECT	50V	100µF	
C621	ECJ2VB1C104K	ELECT	350V	100nF	
C622	ECUV1H683KBX	S.M. CAP	50V	68nF	
C623	ECUV1H102JCX	S.M. CAP	50V	1nF	
C624	ECJ3VB1C474K	ELECT	3.5KV	470nF	
C625	ECJ3VB1C474K	ELECT	3.5KV	470nF	
C626	ECJ3VB1C474K	ELECT	3.5KV	470nF	
C627	ECJ3VB1C474K	ELECT	3.5KV	470nF	
C628	ECA1CM100GB	ELECT	16V	10µF	
C629	ECUV1H104KBX	S.M. CAP	50V	100nF	
C630	ECUV1H100DCX	S.M. CAP	50V	10pF	
C631	ECUV1H683ZFX	S.M. CAP	50V	68nF	
C632	ECUV1H270JCX	S.M. CAP	50V	27pF	
C633	ECUV1H271JCX	S.M. CAP	50V	270pF	
C634	ECUV1H271JCX	S.M. CAP	50V	270pF	
C635	ECUV1H180JCX	S.M. CAP	50V	18pF	
C636	ECUV1H271JCX	S.M. CAP	50V	270pF	
C637	ECUV1H101JCX	S.M. CAP	50V	100pF	
C638	ECUV1H471JCX	S.M. CAP	50V	470pF	
C639	ECUV1H332KBM	S.M. CAP	50V	3.3nF	
C701	ECA1HHG101B	ELECT	50V	100µF	
C702	ECUV1H103KBX	S.M. CAP	50V	10nF	
C703	ECEA1HGE100	ELECT	50V	10µF	
C704	ECQB1H223K	FILM	50V	22nF	
C705	ECQB1H152K	FILM	50V	1.5nF	
C801	222233510224	FILM	50V	220nF	
C804	ECQE2A474MWB	FILM	100V	470nF	
C806	ECKWNA101MBC	CERAMIC	400V	100µF	
C807	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C808	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C809	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C810	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C811	ECOS2GA221CA	ELECT	400V	220µF	
C814	ECKC3D102J	CERAMIC	2KV	1nF	⚠
C815	ECKC1H471J	CERAMIC	50V	470pF	
C816	EEUFC1E820B	CERAMIC	25V	82pF	
C817	ECQE6104K	FILM	600V	100nF	⚠
C818	ECKWNA332MEC	CERAMIC	250V	3.3nF	
C819	ECQB1H182K	FILM	50V	1.8nF	
C850	ECKC3D471JB	CERAMIC	2KV	470pF	⚠
C851	ECA2CM221E	ELECT	160V	220µF	
C852	ECA2CHG101E	ELECT	160V	100µF	
C853	ECKC2H471J	CERAMIC	500V	470pF	⚠
C854	ECA1EM102GB	ELECT	25V	100µF	

Cct Ref	Parts Number	Description			
C855	ECKC2H471J	CERAMIC	500V	470pF	⚠
C856	ECA1AHG222B	ELECT	10V	470pF	
C857	ECKC2H471J	CERAMIC	500V	470pF	⚠
C858	ECEA1HGE102	ELECT	50V	470pF	
C859	ECJ2VF1H104Z	ELECT	350V	100nF	
C860	ECA1HM101GB	ELECT	50V	100µF	
C862	ECJ2VF1H104Z	ELECT	350V	100nF	
C863	ECA1HM101GB	ELECT	50V	100µF	
C866	ECJ2VF1H104Z	ELECT	350V	100nF	
C867	ECA1CM100GB	ELECT	16V	10µF	
C868	ECA1CM100GB	ELECT	16V	10µF	
C869	ECA1EM101GB	ELECT	25V	100µF	
C870	ECA1EM471GB	ELECT	25V	470µF	
C871	ECA1CM102B	ELECT	16V	470µF	
C872	ECA1CM471GB	ELECT	16V	470µF	
C873	ECA1CM100GB	ELECT	16V	10µF	
C875	ECA2CM4R7B	ELECT	160V	10µF	
C876	ECA1AHG471E	ELECT	10V	470pF	
C902	ECA1VM101GB	ELECT	35V	100µF	
C903	ECUV1H472KBX	S.M. CAP	50V	4.7nF	
C904	ECUV1H472KBX	S.M. CAP	50V	4.7nF	
C906	ECUV1H471KBX	S.M. CAP	50V	470pF	
C908	ECUV1H151JCX	S.M. CAP	50V	150pF	
C909	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C910	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C911	ECUV1H151JCX	S.M. CAP	50V	150pF	
C912	ECEA2CU100	ELECT	160V	10µF	
C913	ECA1HM101GB	ELECT	50V	100µF	
C914	ECA1HM101GB	ELECT	50V	100µF	
C916	ECEA2CGE100	ELECT	160V	10µF	
C950	ECJ2VB1C104K	ELECT	350V	100nF	
C1061	ECUV1H103KBX	S.M. CAP	50V	10nF	
C1062	ECA1HM101GB	ELECT	50V	100µF	
C1063	ECUV1H331JCX	S.M. CAP	50V	330pF	
C1101	ECJ2VF1H104Z	ELECT	350V	100nF	
C1102	ECA0JM101G	ELECT	6.3V	100µF	
C1103	ECUV1H220JCX	S.M. CAP	50V	22pF	
C1104	ECUV1H220JCX	S.M. CAP	50V	22pF	
C1105	ECUV1H101JCX	S.M. CAP	50V	100pF	
C1106	ECKC2H681J	CERAMIC	500V	680pF	⚠
C1108	ECJ2VB1H333K	ELECT	350V	33nF	
C1111	ECA1CM100GB	ELECT	16V	10µF	
C1112	ECUV1H103KBX	S.M. CAP	50V	10nF	
C1115	ECJ3VB1C474K	ELECT	3.5KV	470nF	
C1116	ECUV1H472KBX	S.M. CAP	50V	4.7nF	
C1117	ECJ2VF1H104Z	ELECT	350V	100nF	
C1118	ECUV1H103KBX	S.M. CAP	50V	10nF	
C1119	ECUV1H221JCX	S.M. CAP	50V	220pF	
C1120	ECJ2VF1H104Z	ELECT	350V	100nF	
C1121	ECUV1H221JCX	S.M. CAP	50V	220pF	
C1123	ECUV1H101JCX	S.M. CAP	50V	100pF	
C1124	ECUV1H391JCX	S.M. CAP	50V	390pF	
C1125	ECUV1H391JCX	S.M. CAP	50V	390pF	
C1126	ECUV1H391JCX	S.M. CAP	50V	390pF	
C1127	ECUV1H221JCX	S.M. CAP	50V	220pF	
C1128	ECUV1H223KBX	S.M. CAP	50V	22nF	
C1129	ECUV1H270JCX	S.M. CAP	50V	27pF	
C1900	ECQB1H153K	FILM	50V	15nF	
C1901	ECUV1H103KBX	S.M. CAP	50V	10nF	
C1903	ECA1EM470GB	ELECT	25V	47µF	
C1904	ECQB1H104J	FILM	50V	100nF	
C1905	ECQB1H104J	FILM	50V	100nF	
C1909	ECUV1H103KBX	S.M. CAP	50V	10nF	
C2101	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2102	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2103	ECUV1H102JCX	S.M. CAP	50V	1nF	

Cct Ref	Parts Number	Description		
C2104	ECUV1H102JCX	S.M. CAP	50V	1nF
C2105	ECUV1H102JCX	S.M. CAP	50V	1nF
C2106	ECUV1H102JCX	S.M. CAP	50V	1nF
C2107	ECUV1H102JCX	S.M. CAP	50V	1nF
C2108	ECUV1H102JCX	S.M. CAP	50V	1nF
C2109	ECUV1H102JCX	S.M. CAP	50V	1nF
C2110	ECUV1H102JCX	S.M. CAP	50V	1nF
C2111	ECA1CM100GB	ELECT	16V	10µF
C2112	ECA1CM100GB	ELECT	16V	10µF
C2113	ECA1HM3R3GB	ELECT	50V	3.3µF
C2114	ECJ2VF1H104Z	ELECT	350V	100nF
C2115	ECUV1H221JCX	S.M. CAP	50V	220pF
C2116	ECUV1H221JCX	S.M. CAP	50V	220pF
C2117	ECUV1H221JCX	S.M. CAP	50V	220pF
C2118	ECUV1H221JCX	S.M. CAP	50V	220pF
C2119	ECUV1H221JCX	S.M. CAP	50V	220pF
C2120	ECUV1H221JCX	S.M. CAP	50V	220pF
C2121	ECA1CM100GB	ELECT	16V	10µF
C2122	ECJ2VF1H104Z	ELECT	350V	100nF
C2123	ECUV1H221JCX	S.M. CAP	50V	220pF
C2124	ECUV1H070DTX	S.M. CAP	50V	70pF
C2125	ECUV1H470JCX	S.M. CAP	50V	47pF
C2126	ECUV1H070DTX	S.M. CAP	50V	70pF
C2127	ECUV1H010CCX	S.M. CAP	50V	1pF
C2128	ECUV1H010CCX	S.M. CAP	50V	1pF
C2129	ECA1CM102B	ELECT	16V	1pF
C2130	ECA1CM331B	ELECT	16V	330µF
C2131	ECJ2VF1H103Z	ELECT	350V	10nF
C2132	ECJ2VF1H103Z	ELECT	350V	10nF
C2134	ECJ2VF1H103Z	ELECT	350V	10nF
C2135	ECA1HM101GB	ELECT	50V	100µF
C2136	ECJ2VF1H104Z	ELECT	350V	100nF
C2137	ECA1CM100GB	ELECT	16V	10µF
C2138	ECUV1H471KBX	S.M. CAP	50V	470pF
C2139	ECUV1H221JCX	S.M. CAP	50V	220pF
C2140	ECA1HM101GB	ELECT	50V	100µF
C2141	ECUV1H152JCX	S.M. CAP	50V	1.5pF
C3001	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3002	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3003	ECA1CM470GB	ELECT	16V	47µF
C3005	ECUV1H561JCX	S.M. CAP	50V	560pF
C3006	ECJ3VB1C474K	ELECT	3.5KV	470nF
C3007	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3008	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3009	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3010	ECA1CM470GB	ELECT	16V	47µF
C3012	ECUV1H561JCX	S.M. CAP	50V	560pF
C3013	ECJ3VB1C474K	ELECT	3.5KV	470nF
C3014	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3015	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3016	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3017	ECA1CM470GB	ELECT	16V	47µF
C3019	ECUV1H561JCX	S.M. CAP	50V	560pF
C3020	ECJ3VB1C474K	ELECT	3.5KV	470nF
C3021	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3022	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3023	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3024	ECA1CM470GB	ELECT	16V	47µF
C3026	ECUV1H561JCX	S.M. CAP	50V	560pF
C3027	ECJ3VB1C474K	ELECT	3.5KV	470nF
C3028	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3029	ECA1HM101GB	ELECT	50V	100µF
C3032	ECUV1H271JCX	S.M. CAP	50V	270pF
C3033	ECUV1H271JCX	S.M. CAP	50V	270pF
C3034	ECUV1H271JCX	S.M. CAP	50V	270pF
C3035	ECUV1H271JCX	S.M. CAP	50V	270pF

Cct Ref	Parts Number	Description		
C3101	ECUV1H104KBX	S.M. CAP	50V	100nF
C3102	ECUV1E104KBX	S.M. CAP	25V	100nF
C3111	ECUV1H391JCX	S.M. CAP	50V	390pF
C3112	ECUV1H271JCX	S.M. CAP	50V	270pF
C3201	ECUV1H103KBX	S.M. CAP	50V	10nF
C3202	ECUV1H103KBX	S.M. CAP	50V	10nF
C3203	ECUV1H561JCX	S.M. CAP	50V	560pF
C3204	ECUV1H561JCX	S.M. CAP	50V	560pF
C3205	ECA1HM470GB	ELECT	50V	47µF
C3206	ECUV1H561JCX	S.M. CAP	50V	560pF
C3207	ECUV1H561JCX	S.M. CAP	50V	560pF
C3208	ECA1HM470GB	ELECT	50V	47µF
C3209	ECUV1H103KBX	S.M. CAP	50V	10nF
C3210	ECJ2VB1C104K	ELECT	350V	100nF
C3211	ECUV1H103KBX	S.M. CAP	50V	10nF
C3212	ECUV1H103KBX	S.M. CAP	50V	10nF
C3213	ECUV1H103KBX	S.M. CAP	50V	10nF
C3214	ECJ2VB1C104K	ELECT	350V	100nF
C3215	ECUV1H103KBX	S.M. CAP	50V	10nF
C3216	ECA1CM330GB	ELECT	16V	33pF
C3217	ECJ2VB1C104K	ELECT	350V	100nF
C3221	ECA1HM4R7GB	ELECT	50V	4.7µF
C3401	ECQM1H224J	FILM	50V	220nF
C3402	ECUV1H101JCX	S.M. CAP	50V	100pF
C3403	ECA1HM101GB	ELECT	50V	100µF
C3404	ECQM1H224J	FILM	50V	220nF
C3405	ECUV1H180JCX	S.M. CAP	50V	18pF
C3406	ECUV1H271JCX	S.M. CAP	50V	270pF
C3407	ECUV1H271JCX	S.M. CAP	50V	270pF
C3408	ECA1HM101GB	ELECT	50V	100µF
C3601	ECA1HM101GB	ELECT	50V	100µF
JSE28	ECUV1H104KBX	S.M. CAP	50V	100nF
TERMINALS AND LINKS				
JK2301	JPJ841101320	RCA / HEADPHONE JACK		
JK3201	TJB16656	A.V. TERMINAL		
SWITCHES				
S802	ESB92S11B	SWITCH		⚠
S1251	EVQ23405R	SWITCH		
S1252	EVQ23405R	SWITCH		
S1253	EVQ23405R	SWITCH		
S1254	EVQ23405R	SWITCH		
S1255	EVQ23405R	SWITCH		

Cct Ref	Parts Number	Description

SCHEMATIC DIAGRAMS FOR MODEL

TX-W32R4

(EURO-4 CHASSIS)

IMPORTANT SAFETY NOTICE

Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

NOTE

1. RESISTOR
   All resistors are carbon ¼W resistor, unless marked otherwise.
   Unit of resistance is OHM (Ω) (k=1,000, M=1,000,000)
2. CAPACITORS
   All capacitors are ceramic 50V unless marked otherwise.
   Unit of capacitance is µF unless otherwise stated.
3. COIL
   Unit of inductance is µH, unless otherwise stated.
4. TEST POINT
   Test Point Position
5. EARTH SYMBOL
   Chassis Earth (Cold)
   Line Earth (Hot)
6. VOLTAGE MEASUREMENT
   Voltage is measured by a d.c. voltmeter.
   Measurement conditions are as follows:

Power source	a.c. 220V-240V, 50Hz
Receiving Signal	Colour Bar signal (RF)
All customer controls	Maximum position

7.
   Indicates the Video signal path
   Indicates the Audio signal path

These schematic diagrams are the latest at time of printing and are subject to change without notice.

REMARKS

a. Do not touch the hot part, or the hot and cold parts at the same time, as you are liable to a shock hazard.

b. Do not short circuit the hot and cold circuits as electrical components may be damaged.

c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously as this may cause fuse failure. Connect the earth of the instruments to the earth connection of the circuit being measured.

d. Make sure to disconnect the power plug before removing the chassis.

NOTE

1. The Power Supply Circuit contains a circuit area, which uses a separate power supply to isolate the earth connection. The circuit is defined by HOT and COLD indications in the schematic diagram. All circuits, except the Power Circuit, are COLD.


E BOARD
TNP8EE009
CRT DRIVE
SERVICE/TEST
JK2301
JPJ841101320
AUDIO OUT
AV1
JK3001
AV2
IC1102
EPROM
IC1104
MN1381-RTA
uP
IC1101
SDA5450C48
IC1105
MN1381-TTA
IC1103
IC2101
IC601
IC251
LA4282
IC451
LA7845N
IC853
AN78L08TA
IC851
AN78M12LB1
IC801
STRF6654LF51
IC850
SE140N
IC701
TEA2031A

H BOARD ⚠
TNP8EH002

M3
H2
1 GND
2 CHROMA_IN
3 GND
4 AV2C
5 GND
6 VIDEO_OUT
7 GND
8 AV2_VIDEO_OUT

E61, E62, E63
H3
1 RF VIDEO
2 12V
3 RF MONITOR

L3401
ELESN2R2KA

C3402
100p

C3403
16V
100u

R3404
2.4k

C3404
220n

R3403
100

Q3401
BC847B
0.1
0.7
0

R3405
100k

R3407
12k

Q3402
BC847B
12
3.1
2.8

C3405
18p

JSH001

C3408
16V
100u

R3408
4.7k

R3409
75

L3402
ELESN2R2KA

C3406
270p

C3407
270p

R3402
75

IC3401
TEA2114
8 2.0
7 12.8
6 1.8
5 0.1
1 0
2 1.8
3 2.4
4 0

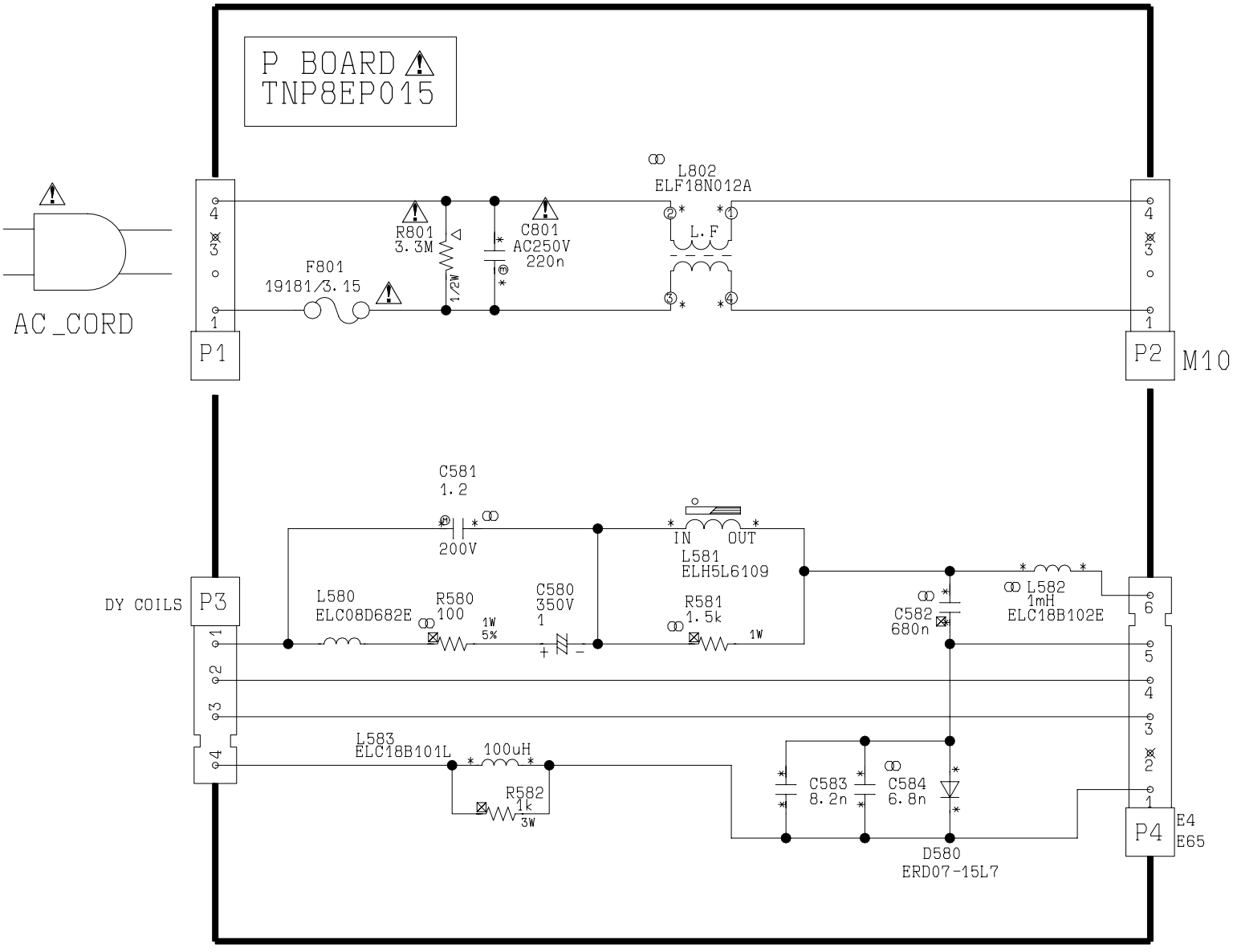
C3401
220n

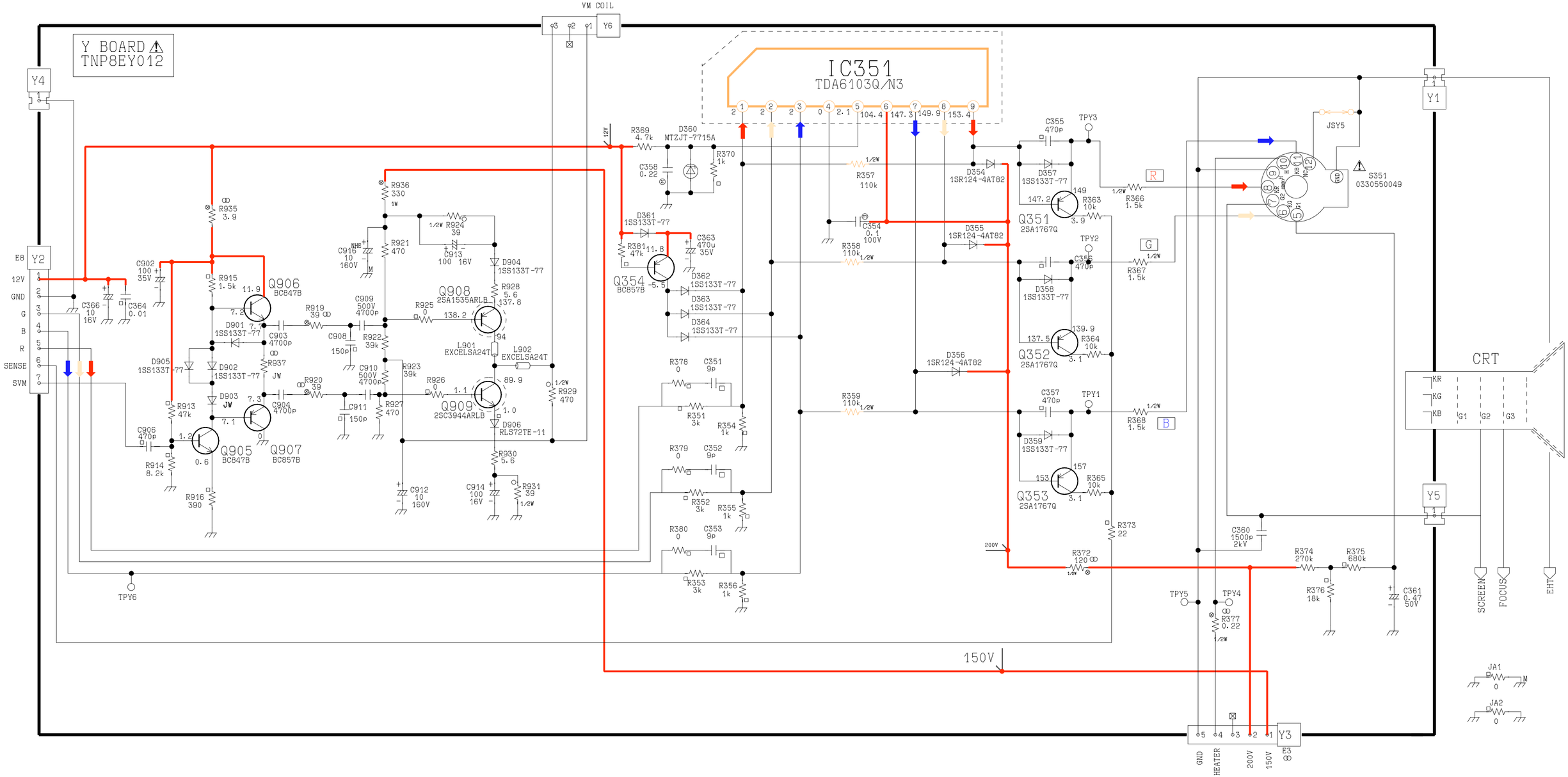
R3406
300

H1
E15
1 GND
2 CHROMA_IN
3 GND
4 AV2C
5 GND
6 VIDEO_OUT
7 GND
8 AV2_VIDEO_OUT

M BOARD
TNP8EM017

RIGHT_INTERNAL
GND
SPEAKER RIGHT
M5
NC
GND
LEFT_INTERNAL
SPEAKER LEFT
M4
AP
JSM2
JSM3
JSM4
JSM7
JSM11
JSM12
JSM13
JSM14
JSM15
JSM16
JSM17
JSM18
JSM19
JSM20
JSM21
JSM22
JSM23
JSM24
JSM25
JK3201
TJB16656
G
R
L
C
C-SW
C-G
Y
Y-G
Y-SW
V
V-G
L-G
R-G
LED
LEFT
RIGHT
RC
5 SBY
5V
CHROMA_SW
MIX_SW
R1062 270
D1061 LN81RPHCF3
L1061 330
R1063 10k
Q1062 BC847B
C1061 10n
C1062 100 16V
IC1061 RPM-637CBRS1
VCC
GND
ROUT
C1063 330p
R3205 220 2W
R3204 220 2W
R3203 150
C3202 10n
C3201 10n
R3202 AP 150
L3201 6.8u
L3202 6.8u
R3207 100
R3209 100
C3205 47 50V
C3206 560p
C3207 560p
R3210 15k
C3204 560p
R3208 15k
C3208 47 50V
D3201 MTZJT-778.2C
D3202 MTZJT-778.2C
SC3_IN_L
SC3_IN_R
AV2C
AV3V
L3203 39
R3211 22k
Q3201 BC847B
C3209 10n
R3212 22k
R3213 1k
C3210 0.1u
R3214 68k
Q3202 BC847B
R3215 3k
C3211 10n
C3217 0.1u
R3216 75
R3217 22k
R3218 22k
R3219 1k
C3212 10n
Q3203 BC857B
R3220 68k
Q3204 BC857B
C3213 10n
R3221 3k
R3222 22k
R3223 22k
Q3205 BC847B
R3224 1k
C3214 0.1u
R3225 68k
Q3206 BC847B
R3226 3k
C3215 10n
Q3207 BC847B
R3227 1k
R3228 27k
Q3208 BC847B
R3229 10k
R3230 3k
R3231 1.2k
R3232 2.4k
C3216 33 16V
R3233 390
Q3209 BC847B
R3234 1k
S1251 EVQ23405R
TV/AV
S1252 EVQ23405R
S1253 EVQ23405R
S1254 EVQ23405R
STR
S1255 EVQ23405R
R1251 2.2k
R1252 2.2k
R1253 3.3k
R1254 5.1k
R1255 9.1k
L3204 330
TLT331K991R
C3221 4.7 50V
M1 E6
M2 E7
M3 E15
AV2_VIDEO_OUT
VIDEO_OUT
CHROMA_IN
SC3_IN_L
SC3_IN_R
KEYSCAN
SWITCH
GND
IC1900
LA6515
L1900 EXCELDR25V
R1900 15 1/2W
R1901 27k
R1902 4.7k
R1903 10k
R1904 6.8 1/2W
R1905 100k
R1906 51k
R1907 75k
R1908 75k
R1909 6.8 1/2W
C1900 15n
C1901 10n
C1903 47 25V
C1904 100n
C1905 100n
C1909 10n
S802 ESB92S11B
M8 E21
M9
M10
M11
GMC
16V
GEO COIL

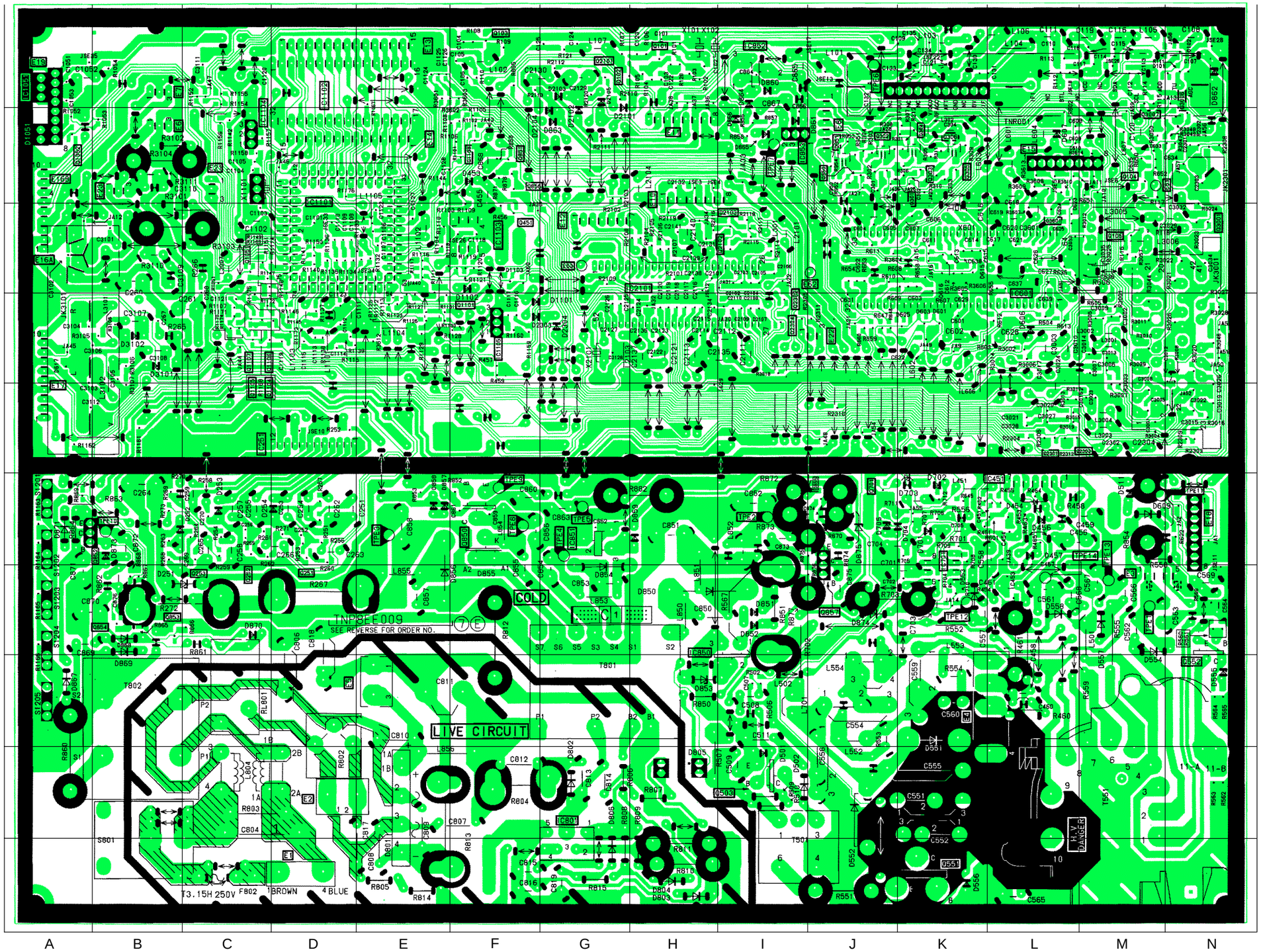

P BOARD
TNP8EP015
AC_CORD
P1
F801
19181/3.15
R801
3.3M
1/2W
C801
AC250V
220n
L802
ELF18N012A
L.F
P2
M10
C581
1.2
200V
L581
ELH5L6109
IN
OUT
DY COILS
P3
L580
ELC08D682E
R580
100
1W
5%
C580
350V
1
R581
1.5k
1W
C582
680n
L582
1mH
ELC18B102E
L583
ELC18B101L
100uH
R582
1k
3W
C583
8.2n
C584
6.8n
D580
ERD07-15L7
P4
E4
E65


Y BOARD ⚠
TNP8EY012
VM COIL
Y6
Y4
Y2
E8
12V
GND
G
B
R
SENSE
SVM
IC351
TDA6103Q/N3
2
2
2
3
0
4
2.1
5
104.4
6
147.3
7
149.9
8
153.4
9
12V
R369 4.7k
D360 MTZJT-7715A
R370 1k
C358 0.22
D361 1SS133T-77
R381 47k
11.8
Q354 BC857B -5.5
C363 470u 35V
D362 1SS133T-77
D363 1SS133T-77
D364 1SS133T-77
R357 110k 1/2W
C354 0.1 100V
R358 110k 1/2W
R359 110k 1/2W
D354 1SR124-4AT82
D355 1SR124-4AT82
D356 1SR124-4AT82
C355 470p
TPY3
D357 1SS133T-77
149
147.2
Q351 2SA1767Q
R363 10k
3.9
C356 470p
TPY2
D358 1SS133T-77
139.9
137.5
Q352 2SA1767Q
R364 10k
3.1
C357 470p
TPY1
D359 1SS133T-77
157
153
Q353 2SA1767Q
R365 10k
3.1
R366 1.5k 1/2W
R
R367 1.5k 1/2W
G
R368 1.5k 1/2W
B
R373 22
R372 120Ω 1/2W
200V
C360 1500p 2kV
R374 270k
R375 680k
R376 18k
C361 0.47 50V
TPY5
TPY4
R377 0.22 1/2W
150V
Y3
5
4
3
2
1
GND
HEATER
200V
150V
E3
Y1
JSY5
S351 0330550049
Y5
CRT
KR
KG
KB
G1
G2
G3
SCREEN
FOCUS
EHT
JA1
0
M
JA2
0
R935 3.9
C902 100 35V
R915 1.5k
11.9
Q906 BC847B
7.2
C366 10 16V
C364 0.01
D901 1SS133T-77
7.7
C903 4700p
R937 JW
D902 1SS133T-77
D903 JW
7.3
7.1
C904 4700p
R913 47k
1.2
Q905 BC847B
0.6
Q907 BC857B
0
C906 470p
R914 8.2k
R916 390
D905 1SS133T-77
R919 39Ω
R920 39Ω
R936 330 1W
R924 39 1/2W
C916 10 160V NHE M
R921 470
C913 100 16V
D904 1SS133T-77
C909 500V 4700p
R925 0
138.2
Q908 2SA1535ARLB
R928 5.6
137.8
94
C908 150p
R922 39k
L901 EXCELSA24T
L902 EXCELSA24T
C910 500V 4700p
R923 39k
R926 0
1.1
89.9
Q909 2SC3944ARLB
1.0
D906 RLS72TE-11
R929 470 1/2W
C911 150p
R927 470
R930 5.6
C912 10 160V
C914 100 16V
R931 39 1/2W
R378 0
C351 9p
R351 3k
R354 1k
R379 0
C352 9p
R352 3k
R355 1k
R380 0
C353 9p
R353 3k
R356 1k
TPY6

CONDUCTOR VIEWS

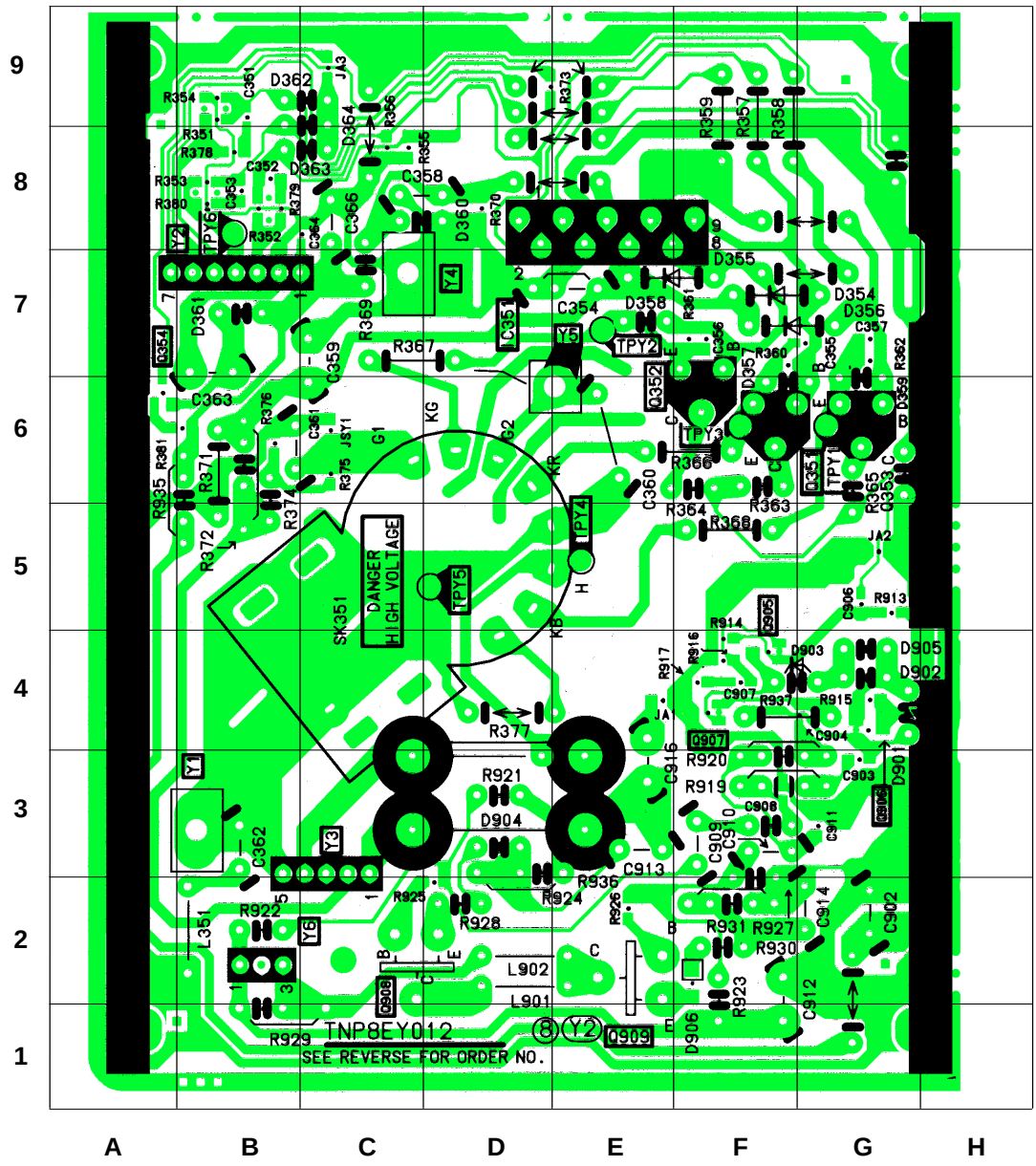
E-BOARD TNP8EE009

TRAN'S		DIODES		D558	L4
Q3601	L8	D3103	B7	D557	M4
Q3007	M9	D3101	B7	D556	K1
Q3001	N8	D3102	B7	D555	N3
Q3006	N10	D2161	G9	D554	M4
Q2304	I7	D2105	G10	D553	K4
Q2303	M6	D2104	F9	D552	J2
Q2301	I7	D2103	G10	D551	K3
Q2103	I8	D2102	G9	D511	M5
Q2102	H8	D1103	F8	D502	I2
Q2101	G10	D1102	F7	D501	I2
Q1108	F9	D1101	G7	D457	L5
Q1107	C7	D1051	A9	D456	L5
Q1106	C7	D875	J5	D454	L5
Q1105	C7	D874	J4	D453	F9
Q1104	C7	D873	B5	D254	C5
Q1101	F7	D871	A5	D253	C5
Q1052	A9	D870	871	D252	B5
Q1051	C8	D869	B4	D251	B4
Q951	J9	D868	B4	**IC'S**	
Q950	J9	D867	A3	IC2101	H8
Q857	J4	D866	I9	IC1105	F7
Q856	F9	D865	I9	IC1104	C9
Q855	J5	D864	I10	IC1103	F8
Q854	B4	D863	G9	IC1102	D10
Q853	B4	D862	N10	IC1101	D8
Q852	B5	D861	J9	IC1051	A10
Q850	F5	D860	I10	IC852	I10
Q701	J5	D859	H5	IC851	G5
Q552	N3	D858	E5	IC850	H4
Q551	K1	D857	E5	IC801	G2
Q503	I2	D855	F4	IC701	K5
Q451	F8	D854	G4	IC601	L7
Q394	K9	D853	H3	IC451	L5
Q305	K9	D852	I4	IC251	D6
Q303	K9	D851	I4	**TP'S**	
Q302	J9	D850	H4	TPE14	M5
Q301	K9	D806	G2	TPE13	M4
Q253	C4	D805	H2	TPE12	K4
Q252	C4	D804	H1	TPE11	N5
Q252	C4	D803	H1	TPE10	B5
Q251	D4	D802	G2	TPE9	E5
Q105	M8	D801	E1	TPE8	F5
Q104	M9	D705	J5	TPE7	I9
Q103	F10	D704	K5	TPE6	J10
Q102	G10	D703	K5	TPE5	G5
Q101	H10	D702	K5	TPE4	G5
		D701	K5	TPE3	E5
		D609	M5	TPE2	I5
		D607	L9	TPE1	M4



Y - BOARD TNP8EY012

TRANSISTORS	
Q909	E1
Q908	C2
Q907	F4
Q906	G3
Q905	F5
Q354	A7
Q353	G6
Q352	F6
Q351	F6
DIODES	
D906	F1
D905	G4
D904	D3
D902	G4
D901	G3
D364	C9
D363	C8
D362	B9
D361	B7
D360	D8
D359	G6
D358	E7
D357	F7
D356	G7
D355	F7
D354	G7
TEST POINTS	
TPY6	B8
TPY5	D5
TPY4	E5
TPY3	F6
TPY2	E7
TPY1	G6
IC'S	
IC351	E8



M - BOARD TNP8EM017

TRANSISTORS	
Q3201	B10
Q3202	B9
Q3203	B9
Q3204	B9
Q3205	C1
Q3206	D2
Q3207	C2
Q3208	C3
Q3209	C3
Q1900	D10
Q1061	B10
Q1062	A10
DIODES	
D3201	C10
D3202	C10
D3203	B11
D1900	D8
D1061	A11
IC'S	
IC1900	D9
IC1901	D8
IC1061	A10